

Supplementary Table 3a

Unclassified	Amin	CHEMO	LGR	MCHR	MEC	MRG	MTN	OLF
lc Hs2_22296_28_8_5	lc Hs8_8296_28_4_4	lc Hs12_9642_28_11_1	lc Hs2_15276_28_11_1	lc Hs6_19580_28_28_1	lc Hs1_4819_28_14_3	lc Hs6_30246_28_12_1	lc HsX_11794_28_4_1	lc Hs1_30125_28_1_11
lc Hs12_9888_28_18_1	lc Hs8_8296_28_6_2	lc Hs3_5773_28_2_1	lc Hs11_31047_28_2_1		lc Hs1_4819_28_14_1	lc Hs11_9097_28_3_1	lc Hs4_6326_28_10_1	lc Hs1_31901_28_1_10
lc Hs1_30818_28_6_1	lc Hs8_8296_28_5_2	lc HsX_25421_28_2_1	lc HsX_25421_28_2_1		lc Hs22_11677_28_95_1	lc Hs11_9097_28_1_7	lc Hs11_9141_28_50_1	lc Hs1_31901_28_1_15
lc Hs1_5015_28_1_1	lc Hs20_11544_28_104_1	lc Hs11_9453_28_9_1	lc Hs1_31853_28_11_1		lc Hs1_22033_28_12_1	lc Hs11_9097_28_2_2		lc Hs1_30125_28_2_3
lc Hs5_23241_28_2_1	lc Hs10_32037_28_7_1	lc Hs14_10193_28_11_1	lc Hs13_10141_28_23_4		lc Hs17_27348_28_14_1	lc Hs11_24438_28_1_2		lc Hs1_31898_28_1_2
lc HsX_11943_28_29_1	lc Hs2_27130_28_6_1	lc Hs14_10193_28_13_1	lc Hs2_15276_28_9_1		lc Hs17_31103_28_1_2	lc Hs11_24438_28_1_3		lc Hs1_31898_28_1_16
lc Hs17_10829_28_15_3	lc Hs10_8837_28_21_1	lc Hs14_30391_28_25_1	lc Hs14_26604_28_110_4		lc Hs1_5123_28_46_1	lc Hs11_24438_28_1_3		lc Hs1_31898_28_1_4
lc Hs7_30265_28_19_2	lc Hs5_31972_28_6_1	lc Hs19_11347_28_184_1			lc Hs6_7456_28_33_1	lc Hs11_24438_28_1_1		lc Hs1_31898_28_1_17
lc Hs2_26406_28_8_1	lc Hs8_26516_28_2_3	lc Hs3_5882_28_10_1			lc Hs1_4516_28_34_1			lc Hs1_31898_28_1_18
lc Hs5_6811_28_22_2	lc Hs8_8408_28_11_1	lc Hs7_7976_28_27_2			lc Hs1_4465_28_2_1			lc Hs1_31898_28_1_18
lc Hs12_9859_28_6_1	lc Hs1_4928_28_15_1	lc Hs3_6154_28_19_1			lc Hs9_8595_28_26_1			lc Hs1_31898_28_1_19
lc Hs13_10109_28_41_4	lc Hs11_9335_28_2_2	lc Hs17_10928_28_29_1			lc Hs9_8595_28_25_1			lc Hs1_31898_28_1_6
lc Hs6_7749_28_530_1	lc Hs5_7085_28_4_1	lc Hs6_25897_28_92_1			lc Hs19_11452_28_8_1			lc Hs1_30125_28_1_2
lc HsX_11876_28_12_1	lc Hs11_9308_28_120_1	lc Hs3_22549_28_5_2			lc Hs19_11287_28_33_1			lc Hs1_30125_28_1_6
lc Hs1_4825_28_58_2	lc Hs3_5952_28_9_1	lc Hs3_6154_28_14_1			lc Hs2_5446_28_66_1			lc Hs1_30125_28_1_10
lc Hs3_5835_28_4_2	lc Hs11_9110_28_5_1	lc Hs3_6154_28_17_1			lc Hs1_27103_28_22_1			lc Hs1_30125_28_1_5
lc Hs10_30339_28_19_1	lc Hs1_4828_28_10_1	lc Hs3_6154_28_12_1			lc Hs16_10699_28_24_1			lc Hs1_30125_28_1_3
lc Hs5_7016_28_10_1	lc Hs1_4828_28_1_2	lc Hs6_7579_28_32_1			lc Hs20_11519_28_229_1			lc Hs1_30125_28_1_7
lc Hs1_31907_28_3_1	lc Hs1_4828_28_10_4	lc Hs6_7579_28_31_1						lc Hs1_30125_28_1_8
lc Hs16_24932_28_1_4	lc Hs4_6507_28_6_1	lc Hs17_25057_28_12_3						lc Hs1_31898_28_1_3
	lc Hs3_6084_28_72_1	lc Hs17_25057_28_13_1						lc Hs1_30125_28_1_1
	lc Hs5_7085_28_11_1	lc Hs7_8125_28_6_2						lc Hs1_30125_28_1_9
	lc Hs20_31127_28_10_1	lc Hs3_5655_28_8_1						lc Hs1_30125_28_1_19
	lc Hs11_29576_28_1_1	lc Hs3_6154_28_25_1						lc Hs1_30125_28_1_13
	lc Hs18_11201_28_14_1	lc Hs3_6154_28_10_1						lc Hs1_30125_28_1_15
	lc Hs6_23555_28_49_1	lc Hs12_9817_28_11_3						lc Hs1_30125_28_1_20
	lc Hs1_4516_28_11_1	lc Hs11_9097_28_46_1						lc Hs1_30125_28_1_12
	lc Hs6_23555_28_5_1	lc Hs14_10321_28_35_1						lc Hs1_30125_28_1_21
	lc Hs13_9956_28_14_1	lc Hs11_9453_28_79_1						lc Hs1_31898_28_1_7
	lc Hs2_5560_28_15_2	lc Hs3_5655_28_6_1						lc Hs1_30125_28_1_18
	lc HsX_28564_28_10_1	lc Hs7_8125_28_6_4						lc Hs1_31901_28_1_5
	lc Hs6_19580_28_7_1	lc Hs2_5494_28_14_4						lc Hs6_7749_28_537_6
	lc Hs5_31972_28_2_1	lc HsX_19852_28_3_1						lc Hs1_31901_28_1_16
	lc Hs5_31972_28_5_1	lc Hs11_9308_28_216_1						lc Hs6_7749_28_263_2
	lc Hs5_31972_28_2_2	lc Hs3_6154_28_23_2						lc Hs1_31901_28_1_9
	lc Hs2_28244_28_4_1	lc Hs19_11248_28_30_1						lc Hs1_31901_28_1_8
	lc Hs7_7823_28_3_1	lc Hs19_11248_28_32_1						lc Hs1_31901_28_1_13
	lc Hs1_29377_28_15_1	lc Hs2_5527_28_8_1						lc Hs1_31886_28_1_1
	lc Hs12_24566_28_17_1	lc Hs1_31858_28_6_1						lc Hs1_5139_28_14_1
	lc Hs10_8926_28_19_1	lc Hs19_11347_28_29_1						lc Hs1_4563_28_3_1
	lc Hs6_25897_28_34_1	lc Hs19_11347_28_28_1						lc Hs1_4563_28_1_3
	lc Hs6_25897_28_26_3	lc Hs2_30161_28_1_6						lc Hs1_5139_28_3_1
	lc Hs6_25897_28_30_1							lc Hs1_5139_28_1_3
	lc Hs6_25897_28_27_1							lc Hs1_5139_28_1_2
								lc Hs1_5139_28_14_9
								lc Hs1_5139_28_14_11
								lc Hs1_5139_28_14_2
								lc Hs1_5139_28_14_8
								lc Hs19_11447_28_6_1
								lc Hs11_9114_28_1_1
								lc Hs1_5139_28_14_12
								lc Hs1_5139_28_12_4
								lc Hs11_30361_28_106_2
								lc Hs1_5139_28_12_3
								lc Hs1_5139_28_12_8
								lc Hs1_5139_28_12_8
								lc Hs1_5139_28_12_5
								lc Hs1_5139_28_12_7
								lc Hs1_31901_28_1_14
								lc Hs1_5139_28_14_3
								lc Hs1_5139_28_14_4
								lc Hs1_31898_28_1_13
								lc Hs3_22603_28_7_1
								lc Hs3_22603_28_7_2
								lc Hs3_22771_28_1_5

lc|Hs3_22771_28_1_4
lc|Hs3_22771_28_1_2
lc|Hs3_22771_28_1_6
lc|Hs5_7011_28_1_5
lc|Hs13_10109_28_107_1
lc|Hs5_7011_28_1_6
lc|Hs6_7749_28_275_4
lc|Hs6_29476_28_1_2
lc|Hs5_6676_28_7_5
lc|Hs6_7749_28_263_4
lc|Hs6_7749_28_261_5
lc|Hs6_7749_28_537_4
lc|Hs6_7749_28_261_2
lc|Hs6_7749_28_235_3
lc|Hs6_7749_28_263_3
lc|Hs6_7749_28_537_5
lc|Hs6_7749_28_278_1
lc|Hs6_7749_28_273_1
lc|Hs6_31975_28_7_1
lc|Hs6_7749_28_537_2
lc|Hs5_6676_28_7_4
lc|Hs6_7749_28_537_3
lc|Hs6_7749_28_263_1
lc|Hs6_7749_28_261_3
lc|Hs6_7749_28_261_4
lc|Hs6_7749_28_260_1
lc|Hs6_7749_28_259_5
lc|Hs6_7749_28_235_5
lc|Hs1_31901_28_1_3
lc|Hs6_7749_28_235_1
lc|Hs1_31898_28_1_8
lc|Hs6_7749_28_235_7
lc|Hs6_7749_28_235_8
lc|Hs6_7749_28_235_9
lc|HsX_11943_28_36_1
lc|Hs7_31982_28_1_1
lc|Hs1_5139_28_12_1
lc|Hs12_9683_28_42_1
lc|Hs6_7749_28_266_1
lc|Hs6_31975_28_3_1
lc|Hs6_7749_28_269_1
lc|Hs7_23717_28_3_3
lc|Hs15_10431_28_1_6
lc|Hs1_4682_28_56_3
lc|Hs6_7569_28_36_2
lc|Hs15_10431_28_1_5
lc|Hs15_10431_28_1_4
lc|Hs15_10431_28_1_3
lc|Hs7_23796_28_46_5
lc|Hs6_25897_28_18_2
lc|Hs6_29465_28_3_3
lc|Hs7_23796_28_50_2
lc|Hs7_23796_28_46_15
lc|Hs7_23796_28_46_4
lc|Hs7_23796_28_46_14
lc|Hs7_23796_28_50_3
lc|Hs7_23796_28_46_10
lc|Hs7_23796_28_46_6
lc|Hs7_23796_28_46_9
lc|Hs7_23796_28_46_7
lc|Hs7_31980_28_24_1
lc|Hs7_23796_28_46_1
lc|Hs7_23796_28_41_4
lc|Hs7_23796_28_45_1
lc|Hs7_23796_28_44_5
lc|Hs7_23796_28_27_3
lc|Hs7_23796_28_27_2
lc|Hs7_23796_28_5_4

lc|Hs2_30169_28_1_1
lc|Hs7_23796_28_5_7
lc|Hs2_30169_28_1_3
lc|Hs9_8578_28_24_5
lc|Hs9_8595_28_27_4
lc|Hs9_8627_28_15_12
lc|HsX_11943_28_38_9
lc|Hs9_8627_28_15_2
lc|Hs9_8627_28_15_3
lc|Hs9_8627_28_15_7
lc|Hs9_8627_28_15_6
lc|Hs9_8627_28_15_8
lc|Hs9_8627_28_15_5
lc|Hs9_8627_28_15_9
lc|Hs9_8578_28_24_6
lc|Hs9_8578_28_20_1
lc|Hs9_8578_28_20_3
lc|Hs9_8578_28_20_2
lc|Hs9_8578_28_23_1
lc|Hs9_29525_28_42_1
lc|Hs9_29525_28_42_4
lc|Hs9_29525_28_42_5
lc|Hs9_29525_28_42_2
lc|Hs9_29525_28_42_6
lc|Hs9_29525_28_42_3
lc|Hs9_29525_28_42_11
lc|Hs9_29525_28_42_9
lc|Hs9_29525_28_42_10
lc|Hs17_30417_28_16_1
lc|Hs9_29525_28_42_8
lc|Hs9_29525_28_42_7
lc|HsX_11943_28_38_8
lc|Hs10_30317_28_1_1
lc|Hs11_9482_28_31_5
lc|Hs11_9482_28_31_7
lc|Hs11_9482_28_33_1
lc|Hs11_9482_28_39_2
lc|Hs11_9482_28_31_11
lc|Hs11_9482_28_31_8
lc|Hs11_28469_28_4_9
lc|Hs11_28469_28_4_8
lc|Hs11_24364_28_3_10
lc|Hs11_31058_28_3_1
lc|Hs11_31058_28_4_1
lc|Hs11_31058_28_5_2
lc|Hs11_31058_28_5_3
lc|Hs11_24364_28_3_7
lc|Hs11_28469_28_8_2
lc|Hs11_28469_28_7_1
lc|Hs11_28469_28_8_3
lc|Hs11_24364_28_3_8
lc|Hs11_24364_28_3_9
lc|Hs11_31058_28_5_5
lc|Hs11_31058_28_5_11
lc|Hs11_28469_28_8_1
lc|Hs11_31058_28_5_10
lc|Hs11_31058_28_5_9
lc|Hs11_24364_28_3_14
lc|Hs11_24364_28_3_12
lc|Hs11_31058_28_5_7
lc|Hs11_31058_28_5_8
lc|Hs11_24364_28_1_9
lc|Hs11_28469_28_4_1
lc|Hs11_31058_28_5_6
lc|Hs11_24364_28_3_4
lc|Hs11_24364_28_3_5
lc|Hs11_24364_28_3_3
lc|Hs11_24364_28_3_2

lcl|Hs11_9482_28_31_2
lcl|Hs11_28469_28_2_2
lcl|Hs11_9482_28_31_3
lcl|Hs11_31058_28_7_3
lcl|Hs11_31058_28_7_2
lcl|Hs11_31058_28_7_7
lcl|Hs11_31058_28_7_4
lcl|Hs11_28469_28_2_1
lcl|Hs11_24364_28_1_3
lcl|Hs11_31058_28_5_12
lcl|Hs11_24364_28_1_1
lcl|Hs11_24364_28_1_6
lcl|Hs11_9482_28_31_14
lcl|Hs11_9482_28_31_16
lcl|Hs11_24364_28_1_4
lcl|Hs11_24364_28_1_5
lcl|Hs11_9482_28_38_3
lcl|Hs11_9482_28_39_1
lcl|Hs11_9482_28_31_13
lcl|Hs11_9482_28_31_15
lcl|Hs11_9482_28_31_18
lcl|Hs11_28469_28_4_3
lcl|Hs11_28469_28_4_4
lcl|Hs11_24364_28_3_13
lcl|Hs11_28469_28_4_5
lcl|Hs11_28469_28_4_6
lcl|Hs11_28469_28_4_2
lcl|Hs11_9482_28_38_2
lcl|Hs11_9482_28_31_10
lcl|Hs11_9482_28_7_2
lcl|Hs11_9482_28_11_3
lcl|Hs11_9482_28_7_1
lcl|Hs11_9482_28_5_2
lcl|Hs11_9482_28_5_1
lcl|Hs11_9453_28_35_8
lcl|Hs11_9453_28_35_9
lcl|Hs11_9453_28_12_9
lcl|Hs11_9453_28_12_10
lcl|Hs11_9453_28_35_2
lcl|Hs11_9453_28_47_17
lcl|Hs11_9453_28_47_16
lcl|Hs11_9453_28_47_13
lcl|Hs11_9453_28_47_14
lcl|Hs11_9453_28_48_5
lcl|Hs11_9453_28_48_7
lcl|Hs11_9453_28_48_8
lcl|Hs11_9453_28_48_10
lcl|Hs11_9453_28_48_9
lcl|Hs11_9453_28_12_7
lcl|Hs11_9453_28_3_26
lcl|Hs11_9453_28_3_17
lcl|Hs11_9114_28_1_3
lcl|Hs11_9114_28_1_6
lcl|Hs11_9114_28_1_5
lcl|Hs11_9453_28_12_4
lcl|Hs11_9453_28_12_3
lcl|Hs17_30417_28_26_1
lcl|Hs17_29632_28_5_1
lcl|Hs11_9453_28_3_28
lcl|Hs11_9453_28_3_29
lcl|Hs11_9453_28_3_25
lcl|Hs11_9453_28_8_2
lcl|Hs11_9453_28_3_10
lcl|Hs11_9453_28_3_24
lcl|Hs11_9453_28_3_22
lcl|Hs11_9453_28_7_10
lcl|Hs11_9453_28_7_8
lcl|Hs11_9453_28_7_12

lcl|Hs11_9453_28_7_14
lcl|Hs11_9453_28_7_13
lcl|Hs1_31886_28_1_2
lcl|Hs11_9453_28_7_9
lcl|Hs11_9453_28_7_7
lcl|Hs11_9453_28_47_1
lcl|Hs11_9453_28_47_2
lcl|Hs11_9453_28_47_4
lcl|Hs11_9453_28_47_5
lcl|Hs11_9453_28_47_3
lcl|Hs2_22406_28_1_7
lcl|Hs11_9453_28_14_3
lcl|Hs11_9453_28_3_13
lcl|Hs11_9453_28_3_12
lcl|Hs11_9453_28_3_27
lcl|Hs11_9453_28_14_2
lcl|Hs11_9453_28_5_1
lcl|Hs11_9372_28_34_10
lcl|Hs11_9372_28_34_11
lcl|Hs11_9372_28_34_24
lcl|Hs11_9372_28_34_7
lcl|Hs11_9372_28_34_5
lcl|Hs11_9372_28_34_4
lcl|Hs11_9372_28_25_2
lcl|Hs11_9372_28_34_8
lcl|Hs11_9372_28_34_17
lcl|Hs11_9372_28_25_7
lcl|Hs11_9372_28_34_15
lcl|Hs11_9372_28_25_6
lcl|Hs11_9372_28_34_14
lcl|Hs11_9372_28_34_23
lcl|Hs11_9372_28_34_12
lcl|Hs11_9372_28_34_18
lcl|Hs11_9453_28_3_2
lcl|Hs11_9453_28_3_14
lcl|Hs11_9453_28_3_20
lcl|Hs11_9453_28_14_19
lcl|Hs11_9453_28_14_17
lcl|Hs11_9453_28_14_16
lcl|Hs11_9453_28_3_5
lcl|Hs11_9453_28_3_8
lcl|Hs11_9453_28_3_19
lcl|Hs11_9453_28_14_10
lcl|Hs11_9453_28_14_9
lcl|Hs11_9453_28_14_7
lcl|Hs11_9453_28_14_6
lcl|Hs11_9453_28_14_8
lcl|Hs11_9453_28_14_11
lcl|Hs11_9453_28_14_12
lcl|Hs11_9453_28_14_14
lcl|Hs11_9453_28_14_13
lcl|Hs11_9453_28_14_15
lcl|Hs11_9453_28_47_11
lcl|Hs11_9453_28_47_12
lcl|Hs11_9114_28_1_10
lcl|Hs11_9114_28_1_9
lcl|Hs11_9482_28_5_4
lcl|Hs11_9482_28_5_5
lcl|Hs11_9482_28_5_3
lcl|Hs11_9453_28_50_2
lcl|Hs11_9453_28_47_10
lcl|Hs11_9453_28_47_8
lcl|Hs11_9372_28_32_1
lcl|Hs11_9372_28_32_4
lcl|Hs11_9453_28_35_5
lcl|Hs2_22406_28_1_13
lcl|Hs2_22406_28_1_11
lcl|Hs7_23796_28_46_2

lc|Hs11_9372_28_32_10
lc|Hs11_9372_28_32_11
lc|Hs11_9372_28_32_9
lc|Hs11_9372_28_32_8
lc|Hs11_9372_28_32_5
lc|Hs11_9372_28_32_6
lc|Hs11_9372_28_34_3
lc|Hs11_9372_28_32_12
lc|Hs11_9372_28_34_1
lc|Hs11_9372_28_32_13
lc|Hs14_19739_28_113_2
lc|Hs11_9453_28_7_16
lc|Hs11_9453_28_7_19
lc|Hs11_9453_28_7_20
lc|Hs11_27278_28_3_2
lc|Hs11_27278_28_1_4
lc|Hs11_27278_28_2_2
lc|Hs11_9453_28_7_24
lc|Hs11_9453_28_1_4
lc|Hs11_9453_28_8_1
lc|Hs11_9453_28_7_25
lc|Hs11_24325_28_1_4
lc|Hs11_9453_28_1_1
lc|Hs11_9453_28_7_21
lc|Hs11_24499_28_1_2
lc|Hs11_24316_28_2_4
lc|Hs11_24499_28_1_1
lc|Hs11_24316_28_1_1
lc|Hs11_9453_28_1_3
lc|Hs11_9453_28_7_23
lc|Hs11_9453_28_7_15
lc|Hs11_9372_28_32_3
lc|Hs11_9453_28_48_11
lc|Hs11_9453_28_48_15
lc|Hs11_9453_28_48_13
lc|Hs11_9453_28_48_12
lc|Hs11_9453_28_48_14
lc|Hs12_9683_28_46_5
lc|Hs12_9720_28_58_2
lc|Hs12_9720_28_58_4
lc|HsX_11943_28_38_2
lc|Hs12_9720_28_58_7
lc|Hs12_9615_28_67_4
lc|Hs12_9615_28_67_1
lc|Hs14_19739_28_62_2
lc|Hs12_9615_28_67_2
lc|Hs14_19739_28_77_2
lc|Hs1_31898_28_1_14
lc|Hs14_19739_28_62_4
lc|Hs14_19739_28_101_2
lc|Hs14_19739_28_112_3
lc|Hs15_10519_28_10_15
lc|Hs15_10519_28_10_19
lc|Hs14_19739_28_113_3
lc|Hs15_10519_28_10_6
lc|Hs14_19739_28_67_19
lc|Hs14_19739_28_68_1
lc|Hs15_10519_28_10_5
lc|Hs14_19739_28_67_16
lc|Hs14_19739_28_67_17
lc|Hs14_19739_28_113_1
lc|Hs14_19739_28_112_7
lc|Hs15_10519_28_10_2
lc|Hs14_19739_28_112_22
lc|Hs14_19739_28_112_10
lc|Hs14_19739_28_112_8
lc|Hs14_19739_28_112_16
lc|Hs14_19739_28_1_1

lcl|Hs14_19739_28_112_12
lcl|Hs14_19739_28_112_13
lcl|Hs14_19739_28_112_20
lcl|Hs14_19739_28_112_21
lcl|Hs14_19739_28_112_19
lcl|Hs18_28543_28_1_3
lcl|Hs14_19739_28_112_14
lcl|Hs21_11669_28_3_4
lcl|Hs14_19739_28_112_17
lcl|Hs12_9683_28_46_2
lcl|Hs12_9683_28_44_1
lcl|Hs12_9683_28_44_3
lcl|Hs15_10519_28_10_3
lcl|Hs16_15516_28_1_1
lcl|Hs11_24499_28_1_5
lcl|Hs11_24499_28_1_4
lcl|Hs11_24499_28_1_3
lcl|Hs17_30417_28_26_2
lcl|Hs17_30417_28_6_1
lcl|Hs17_30417_28_29_1
lcl|Hs17_30417_28_19_1
lcl|Hs17_30417_28_14_1
lcl|Hs17_29632_28_4_1
lcl|Hs17_30417_28_25_1
lcl|Hs17_30417_28_8_2
lcl|Hs17_30417_28_7_1
lcl|Hs17_30417_28_22_3
lcl|Hs5_23400_28_1_4
lcl|Hs17_30417_28_22_1
lcl|Hs17_30417_28_22_2
lcl|Hs17_10808_28_25_4
lcl|Hs17_10808_28_25_6
lcl|Hs19_25289_28_1_1
lcl|Hs19_25289_28_3_5
lcl|Hs19_11287_28_58_15
lcl|Hs19_11447_28_3_1
lcl|Hs19_11287_28_58_9
lcl|Hs19_11287_28_58_4
lcl|Hs2_5577_28_29_4
lcl|Hs21_11669_28_106_2
lcl|Hs11_9463_28_11_1
lcl|Hs11_9219_28_14_2
lcl|Hs9_19655_28_1_9
lcl|Hs9_31994_28_1_2
lcl|Hs9_19655_28_4_3
lcl|Hs4_28324_28_4_4
lcl|Hs4_28329_28_1_7
lcl|Hs3_22567_28_3_2
lcl|Hs14_26048_28_128_6
lcl|Hs7_8001_28_49_1
lcl|Hs11_9453_28_3_30
lcl|Hs12_9859_28_16_10
lcl|Hs11_30361_28_19_3
lcl|Hs12_9859_28_16_4
lcl|Hs7_8001_28_47_1
lcl|Hs13_24680_28_8_6
lcl|Hs11_9149_28_162_4
lcl|Hs14_26048_28_128_7
lcl|Hs13_10067_28_29_1
lcl|Hs11_30361_28_166_3
lcl|Hs8_8318_28_1_7
lcl|Hs8_19639_28_36_8
lcl|Hs11_9097_28_28_3
lcl|Hs18_25230_28_1_5
lcl|Hs8_19639_28_34_10
lcl|Hs8_19639_28_17_4
lcl|Hs7_7973_28_1_2
lcl|Hs3_22567_28_3_1

lc|Hs3_22821_28_5_2
lc|Hs19_11287_28_58_5
lc|Hs19_11287_28_58_14
lc|Hs19_11287_28_58_13
lc|Hs19_11287_28_58_12
lc|Hs19_11287_28_58_7
lc|Hs3_6084_28_122_1
lc|Hs19_11287_28_58_10
lc|Hs19_11458_28_2_1
lc|Hs11_30361_28_106_1
lc|Hs19_25311_28_4_2
lc|Hs19_25311_28_5_1
lc|Hs19_25311_28_8_2
lc|Hs19_25311_28_6_2
lc|Hs19_25311_28_6_1
lc|Hs19_25285_28_6_1
lc|Hs19_30427_28_1_1
lc|Hs19_26076_28_3_6
lc|Hs1_4682_28_56_2
lc|Hs10_25990_28_1_2
lc|Hs22_28554_28_1_7

OPN

lcl|Hs9_29525_28_35_2
lcl|HsX_26121_28_44_1
lcl|HsX_29666_28_2_1
lcl|HsX_29666_28_4_1
lcl|Hs7_7816_28_39_1
lcl|Hs1_4928_28_2_3
lcl|Hs10_30340_28_30_1
lcl|Hs3_6182_28_6_5
lcl|Hs3_6182_28_5_1
lcl|Hs6_7559_28_36_4
lcl|Hs10_24220_28_6_1

PEPTIDE

lcl|Hs12_9868_28_13_2
lcl|HsX_26121_28_55_1
lcl|HsX_11876_28_19_1
lcl|Hs4_6481_28_6_1
lcl|Hs4_6481_28_5_2
lcl|Hs11_9482_28_28_1
lcl|Hs4_30205_28_6_2
lcl|Hs13_24680_28_52_1
lcl|Hs7_30259_28_54_1
lcl|Hs1_31853_28_14_1
lcl|Hs13_9956_28_34_1
lcl|Hs4_6460_28_6_1
lcl|Hs14_26048_28_54_3
lcl|Hs1_31862_28_7_3
lcl|Hs12_24566_28_6_1
lcl|HsX_11826_28_6_3
lcl|Hs11_9141_28_34_1
lcl|HsX_11927_28_4_1
lcl|Hs15_31084_28_89_4
lcl|Hs1_4668_28_50_1
lcl|Hs6_29475_28_8_1
lcl|Hs6_19585_28_9_1
lcl|Hs2_5560_28_8_1
lcl|Hs2_30864_28_4_1
lcl|Hs10_31034_28_2_1
lcl|Hs4_22989_28_2_1
lcl|Hs5_25876_28_3_3
lcl|Hs4_6573_28_2_1
lcl|Hs20_11544_28_120_2
lcl|Hs4_6286_28_4_1
lcl|Hs4_6573_28_4_1
lcl|Hs2_5168_28_6_5
lcl|Hs20_11490_28_4_3
lcl|Hs20_11490_28_4_1
lcl|Hs3_6084_28_120_1
lcl|Hs7_7976_28_43_6
lcl|Hs2_5585_28_35_1
lcl|Hs2_5585_28_35_4
lcl|Hs10_24245_28_10_1
lcl|Hs4_6540_28_16_1
lcl|Hs8_8205_28_2_1
lcl|Hs4_6494_28_5_5
lcl|Hs4_6494_28_5_4

PTGER

lcl|Hs10_9083_28_1_9
lcl|Hs1_30115_28_52_1
lcl|Hs3_6132_28_11_1
lcl|Hs4_6464_28_9_2
lcl|Hs14_26048_28_125_2
lcl|Hs19_11308_28_5_2
lcl|Hs14_26048_28_124_1
lcl|Hs1_4621_28_7_1
lcl|Hs1_4640_28_6_1
lcl|Hs19_11347_28_208_1
lcl|Hs3_5926_28_7_1
lcl|Hs7_23788_28_7_1
lcl|Hs19_11428_28_13_2

Purin

lcl|Hs13_9956_28_30_1
lcl|Hs13_10109_28_40_1
lcl|Hs19_11453_28_6_1
lcl|Hs5_6870_28_5_1
lcl|Hs5_6870_28_7_2
lcl|Hs5_30955_28_2_2
lcl|Hs5_6870_28_3_1
lcl|Hs5_6870_28_2_2
lcl|Hs19_11298_28_2_2
lcl|Hs3_5946_28_19_1
lcl|HsX_11754_28_14_1
lcl|Hs12_9621_28_21_1
lcl|Hs14_10327_28_2_1
lcl|HsX_11950_28_13_3
lcl|Hs3_5946_28_15_1
lcl|Hs2_5566_28_11_4
lcl|Hs13_10109_28_38_1
lcl|Hs19_11266_28_3_1
lcl|Hs19_11451_28_23_1
lcl|Hs2_5560_28_18_1
lcl|Hs14_30392_28_7_1
lcl|Hs13_10109_28_6_7
lcl|HsX_11950_28_13_4
lcl|Hs3_5946_28_17_1
lcl|Hs2_31924_28_5_6
lcl|Hs12_9621_28_18_3
lcl|Hs3_5814_28_4_1
lcl|HsX_11754_28_15_1
lcl|Hs19_11287_28_38_1
lcl|Hs11_30361_28_6_1
lcl|HsX_19852_28_42_1
lcl|Hs13_9956_28_26_5
lcl|Hs11_30361_28_119_1
lcl|HsX_11754_28_18_1
lcl|Hs1_28212_28_8_1

SOG

lcl|Hs18_25136_28_2_1
lcl|Hs17_10798_28_14_2
lcl|Hs22_11677_28_325_1
lcl|Hs19_11434_28_6_1
lcl|Hs1_4695_28_17_1
lcl|Hs8_23883_28_2_2
lcl|Hs20_25374_28_1_1
lcl|Hs6_23607_28_13_2
lcl|Hs17_30414_28_6_1
lcl|Hs20_11544_28_234_1

klj17.36000001-37000000.214770.215199
kljUh.12000001-13000000.22959.23888
klj17.36000001-37000000.196192.202811
klj17.36000001-37000000.254535.255473
klj17.37000001-38000000.437208.437852
klj11.60000001-61000000.125228.126187
klj11.59000001-60000000.262641.263624
klj11.59000001-60000000.186097.187080
klj13.20000001-21000000.996979.997923
klj13.20000001-21000000.565586.566530
klj13.21000001-22000000.34494.35420
klj13.20000001-21000000.539424.540377
klj13.20000001-21000000.556353.557306
klj13.20000001-21000000.978496.979476
klj17.37000001-38000000.214755.215699
klj13.20000001-21000000.960622.964902
klj3.97000001-98000000.726447.743990
klj7.74000001-75000000.627057.628004
klj7.74000001-75000000.567013.567966
klj17.36000001-37000000.647495.650943
klj7.50000001-60000000.943078.944004
klj17.36000001-37000000.618927.620989
klj17.37000001-38000000.183052.188328
klj17.36000001-37000000.315593.316462
klj15.99000001-10000000.410024.410956
klj3.10700001-10800000.315506.316453
klj17.36000001-37000000.330278.331219
klj17.36000001-37000000.580147.587664
klj17.36000001-37000000.487921.500743
klj17.36000001-37000000.467446.468374
klj17.36000001-37000000.419911.443349
klj2.11300001-11400000.64285.64983
klj2.11200001-11300000.236423.237364
klj2.11300001-11400000.76355.77341
klj2.11200001-11300000.307571.308266
klj2.11200001-11300000.222490.223431
klj2.11200001-11300000.951516.973401
klj6.43000001-44000000.114721.115590
klj6.43000001-44000000.395847.396716
klj4.11600001-11700000.607748.612766
klj7.50000001-60000000.813946.815884
klj6.43000001-44000000.456111.457408
klj6.43000001-44000000.423189.424130
klj6.43000001-44000000.438548.439495
klj6.43000001-44000000.388857.389789
klj4.11600001-11700000.680531.684491
klj4.11600001-11700000.819638.822622
kljUh.91000001-92000000.976953.977405
klj4.11600001-11700000.587842.588789
klj4.11600001-11700000.655476.656425
klj6.43000001-44000000.337532.338257
klj6.43000001-44000000.159873.160757
klj6.43000001-44000000.68520.100518
klj6.42000001-43000000.674391.679742
klj6.42000001-43000000.863218.864159
klj6.42000001-43000000.689399.690337
klj6.42000001-43000000.992316.993269
klj6.42000001-43000000.946777.947730
klj6.43000001-44000000.19886.20818
klj6.41000001-42000000.963226.964047
klj6.40000001-41000000.770894.772602
klj4.42000001-43000000.530963.541244
klj4.57000001-58000000.698294.699235
klj4.51000001-52000000.699201.704034
klj6.43000001-44000000.3117.3716
klj4.51000001-52000000.813610.814461
klj4.51000001-52000000.733132.734085
kljUh.41000001-42000000.345720.346633
klj4.51000001-52000000.789922.789875
klj4.42000001-43000000.616438.617277
klj4.42000001-43000000.633958.656317
klj4.42000001-43000000.594368.605958
klj4.42000001-43000000.689275.690234
klj4.42000001-43000000.670496.671452
klj2.37000001-38000000.765237.767220
klj2.37000001-38000000.542179.543836
klj2.37000001-38000000.441930.442856
kljUh.13000001-13100000.751222.752151
klj11.74000001-75000000.583136.586729
klj2.37000001-38000000.633520.634458
klj2.37000001-38000000.593379.594302
klj2.37000001-38000000.366042.378816
klj2.37000001-38000000.518734.523168
klj2.37000001-38000000.165848.166786
klj2.36000001-37000000.733566.734417
klj2.36000001-37000000.905283.906224
klj2.37000001-38000000.220919.221860
klj2.36000001-37000000.878314.879252
klj2.37000001-38000000.68595.685930
klj2.36000001-37000000.953738.954676
klj2.37000001-38000000.288719.289657
klj11.51000001-52000000.407052.412464
klj2.36000001-37000000.846443.847372
klj2.37000001-38000000.119816.120745
klj2.36000001-37000000.994890.995613
klj2.37000001-38000000.298487.327834
klj2.37000001-38000000.328640.329281
klj2.37000001-38000000.704343.705284

k|11.74000001-75000000.879520.880491
k|11.74000001-75000000.902028.902999
k|11.74000001-75000000.849684.850271
k|2.37000001-38000000.345693.346646
k|7.13000001-131000000.529664.539665
k|Un.39000001-40000000.793430.794071
k|7.13000001-131000000.640057.640973
k|7.13000001-131000000.599165.602788
k|7.13000001-131000000.730628.731439
k|7.13000001-131000000.690429.691391
k|7.13000001-131000000.765169.765939
k|7.13000001-131000000.886591.887319
k|7.13000001-131000000.560548.562016
k|7.13000001-131000000.939134.940066
k|7.13000001-131000000.952482.953417
k|7.13000001-131000000.719740.720672
k|7.13000001-131000000.900683.901618
k|7.13000001-131000000.915499.916458
k|Un.69000001-70000000.57803.58735
k|Un.48000001-49000000.380224.381156
k|8.11700001-118000000.276166.284969
k|7.95000001-96000000.40806.41698
k|7.95000001-96000000.81642.82604
k|7.95000001-96000000.53333.54298
k|7.98000001-99000000.148208.149168
k|7.94000001-95000000.385464.386427
k|7.94000001-95000000.455633.456667
k|7.94000001-95000000.440380.441039
k|7.94000001-95000000.843197.848632
k|7.94000001-95000000.879379.880200
k|7.94000001-95000000.891911.893887
k|7.94000001-95000000.884260.886253
k|7.94000001-95000000.852673.854812
k|7.94000001-95000000.923128.923946
k|7.94000001-95000000.908343.910326
k|7.92000001-93000000.498600.500574
k|7.92000001-93000000.738232.739200
k|7.93000001-94000000.431217.434842
k|7.93000001-94000000.668598.669521
k|7.93000001-94000000.657090.658025
k|7.92000001-93000000.527666.539654
k|7.92000001-93000000.570666.582310
k|7.92000001-93000000.756993.757949
k|7.92000001-93000000.489130.490077
k|7.93000001-94000000.723600.724559
k|7.93000001-94000000.721823.722377
k|7.93000001-94000000.850702.860929
k|7.93000001-94000000.806462.807442
k|7.93000001-94000000.869166.870110
k|7.93000001-94000000.885213.886238
k|7.93000001-94000000.840983.841921
k|7.93000001-94000000.331175.331921
k|7.93000001-94000000.816113.820314
k|7.92000001-93000000.924234.925181
k|7.92000001-93000000.603116.604060
k|7.92000001-93000000.706584.707399
k|11.10900001-110000000.495311.500727
k|7.93000001-94000000.795784.796731
k|7.93000001-94000000.772202.773149
k|7.92000001-93000000.408940.409647
k|7.93000001-94000000.732286.733096
k|7.93000001-94000000.441027.441953
k|7.93000001-94000000.381929.382870
k|7.93000001-94000000.214889.219285
k|7.93000001-94000000.273354.274094
k|7.93000001-94000000.259113.259835
k|7.92000001-93000000.542895.546730
k|7.92000001-93000000.562972.553928
k|7.93000001-94000000.284840.285811
k|7.93000001-94000000.305841.306812
k|7.93000001-94000000.525238.526197
k|7.93000001-94000000.309558.323240
k|7.92000001-93000000.813238.814179
k|7.92000001-93000000.730002.730670
k|7.92000001-93000000.784028.784963
k|7.92000001-93000000.794493.795404
k|7.93000001-94000000.750772.751800
k|7.95000001-96000000.132482.136571
k|7.93000001-94000000.967452.972616
k|7.93000001-94000000.354772.355728
k|7.95000001-96000000.96889.97836
k|7.95000001-96000000.104408.105376
k|7.94000001-95000000.311519.312466
k|7.94000001-95000000.300127.301068
k|7.93000001-94000000.979575.980525
k|7.94000001-95000000.6091.6804
k|7.93000001-94000000.227213.228177
k|7.93000001-94000000.36952.45254
k|7.94000001-95000000.327333.328743
k|7.92000001-93000000.997911.998884
k|7.93000001-94000000.11799.12737
k|7.92000001-93000000.302901.309574
k|Un.12000001-130000000.625214.625952
k|7.94000001-95000000.758626.759564
k|7.94000001-95000000.797870.798823
k|7.94000001-95000000.712371.722990
k|7.94000001-95000000.818482.819174
k|7.94000001-95000000.822192.832475

kd|7.92000001-93000000.980711.981484
kd|7.93000001-94000000.89130.90077
kd|7.93000001-94000000.97206.98165
kd|Un.44000001-45000000.890452.891411
kd|7.93000001-94000000.106802.107749
kd|7.93000001-94000000.487202.503491
kd|7.93000001-94000000.536948.537898
kd|7.94000001-95000000.687350.696490
kd|7.94000001-95000000.989398.970105
kd|7.98000001-99000000.125328.136840
kd|7.94000001-95000000.335472.336466
kd|7.94000001-95000000.394191.397146
kd|7.94000001-95000000.637739.638689
kd|7.94000001-95000000.673321.674190
kd|7.94000001-95000000.681814.682770
kd|7.94000001-95000000.486027.486721
kd|7.92000001-93000000.434469.435422
kd|7.92000001-93000000.319254.320716
kd|7.92000001-93000000.310157.311161
kd|7.92000001-93000000.868072.878730
kd|7.92000001-93000000.716543.717382
kd|7.92000001-93000000.912001.912960
kd|7.93000001-94000000.126613.127608
kd|7.93000001-94000000.209164.210159
kd|7.92000001-93000000.444120.445079
kd|7.92000001-93000000.470655.471503
kd|7.94000001-95000000.343939.344691
kd|7.93000001-94000000.114684.115628
kd|7.93000001-94000000.408711.410429
kd|7.92000001-93000000.417993.418808
kd|7.93000001-94000000.504397.511851
kd|7.94000001-95000000.366480.367445
kd|7.94000001-95000000.946996.947991
kd|7.96000001-97000000.301266.313743
kd|7.96000001-97000000.263697.286337
kd|7.96000001-97000000.233733.250289
kd|7.96000001-97000000.361900.362815
kd|7.96000001-97000000.416204.417163
kd|7.96000001-97000000.324262.325197
kd|7.96000001-97000000.376947.377897
kd|7.96000001-97000000.457272.458222
kd|7.96000001-97000000.444897.445647
kd|4.116000001-117000000.570902.571826
kd|7.96000001-97000000.677536.678243
kd|7.96000001-97000000.700727.701671
kd|4.116000001-117000000.835786.836734
kd|4.116000001-117000000.756043.756938
kd|4.116000001-117000000.710870.711829
kd|7.96000001-97000000.395204.395639
kd|7.96000001-97000000.719091.720035
kd|7.96000001-97000000.497325.498278
kd|7.96000001-97000000.484839.485792
kd|2.86000001-87000000.700946.701884
kd|2.86000001-87000000.589677.590615
kd|2.86000001-87000000.674768.675703
kd|2.86000001-87000000.685236.686296
kd|2.86000001-87000000.714766.715695
kd|19.13000001-14000000.479043.479622
kd|19.13000001-14000000.422166.438221
kd|19.13000001-14000000.447525.448486
kd|19.13000001-14000000.482044.482732
kd|19.13000001-14000000.398476.409817
kd|19.13000001-14000000.387701.389043
kd|19.13000001-14000000.354852.375779
kd|19.11000001-12000000.769828.784906
kd|19.11000001-12000000.691137.693864
kd|19.11000001-12000000.755096.756034
kd|19.11000001-12000000.715536.716357
kd|19.11000001-12000000.711979.712971
kd|19.11000001-12000000.950348.951304
kd|19.11000001-12000000.603940.623052
kd|15.99000001-10000000.382333.384475
kd|11.59000001-60000000.364675.365601
kd|11.59000001-60000000.361574.362500
kd|11.59000001-60000000.347518.348444
kd|19.11000001-12000000.649709.657896
kd|19.11000001-12000000.819641.822464
kd|2.86000001-87000000.517244.549146
kd|1.93000001-94000000.53652.54620
kd|2.86000001-87000000.636751.637581
kd|2.86000001-87000000.494932.506970
kd|2.86000001-87000000.578940.579893
kd|2.86000001-87000000.562825.563778
kd|2.87000001-88000000.984749.987306
kd|2.88000001-89000000.43933.44631
kd|2.88000001-89000000.22687.23470
kd|2.88000001-89000000.58923.59861
kd|2.89000001-89000000.86830.87769
kd|2.87000001-88000000.229747.231736
kd|Un.127000001-128000000.689959.690651
kd|7.97000001-98000000.508271.508963
kd|7.97000001-98000000.541541.542282
kd|7.97000001-98000000.654753.658312
kd|Un.127000001-128000000.735298.736215
kd|7.97000001-98000000.387493.388410
kd|7.98000001-99000000.218417.219211
kd|7.97000001-98000000.639615.640553
kd|7.97000001-98000000.752157.753082

lc|7.97000001-98000000.792170.793143
lc|7.98000001-98000000.255869.258442
lc|7.97000001-98000000.889845.928984
lc|7.98000001-99000000.50560.51561
lc|Un.60000001-61000000.98025.981869
lc|7.97000001-98000000.949209.950153
lc|7.98000001-99000000.4006.4950
lc|7.98000001-99000000.200346.201319
lc|7.97000001-98000000.835345.836289
lc|7.98000001-99000000.210099.211049
lc|7.97000001-98000000.605588.608996
lc|7.97000001-98000000.667815.669254
lc|7.97000001-98000000.674411.677945
lc|7.98000001-99000000.112072.117460
lc|7.97000001-98000000.682751.688948
lc|2.86000001-87000000.265532.266332
lc|2.86000001-87000000.312043.312972
lc|2.86000001-87000000.243417.244295
lc|2.86000001-87000000.342462.356316
lc|2.86000001-87000000.326414.327358
lc|2.87000001-88000000.929575.930090
lc|2.88000001-89000000.897828.911458
lc|2.89000001-90000000.963380.968513
lc|2.89000001-90000000.346441.347374
lc|2.89000001-90000000.19589.20539
lc|2.88000001-89000000.998837.999781
lc|2.88000001-89000000.922275.923231
lc|19.13000001-14000000.11379.13355
lc|19.13000001-14000000.3584.4560
lc|19.12000001-13000000.392663.393622
lc|19.12000001-13000000.484577.486296
lc|19.13000001-14000000.61676.89822
lc|Un.114000001-115000000.793811.794758
lc|19.13000001-14000000.145749.146696
lc|19.13000001-14000000.179464.179411
lc|19.12000001-13000000.415655.416599
lc|19.12000001-13000000.451247.452191
lc|19.12000001-13000000.563159.564083
lc|19.12000001-13000000.913878.925137
lc|19.12000001-13000000.418943.422278
lc|19.12000001-13000000.574768.575691
lc|19.12000001-13000000.468620.467564
lc|19.12000001-13000000.211299.212237
lc|19.12000001-13000000.205414.206334
lc|19.12000001-13000000.960322.961251
lc|19.13000001-14000000.28035.28790
lc|2.86000001-87000000.776155.781552
lc|2.86000001-87000000.764393.767517
lc|2.87000001-88000000.620485.621175
lc|2.87000001-88000000.756982.757752
lc|2.87000001-88000000.735126.735858
lc|2.87000001-88000000.953439.954413
lc|4.116000001-117000000.628314.629078
lc|X.35000001-36000000.634050.637772
lc|1.93000001-94000000.34289.43305
lc|1.93000001-94000000.85648.79802
lc|1.93000001-94000000.18979.19950
lc|2.88000001-89000000.841777.842483
lc|2.88000001-89000000.489329.498515
lc|2.88000001-89000000.791403.813888
lc|2.88000001-89000000.595338.622315
lc|2.88000001-89000000.483360.484283
lc|2.88000001-89000000.578624.579553
lc|2.88000001-89000000.584977.585903
lc|9.39000001-40000000.122926.147331
lc|9.39000001-40000000.48234.49160
lc|9.39000001-40000000.167859.168785
lc|9.39000001-40000000.41286.42212
lc|9.37000001-38000000.910485.911414
lc|9.39000001-40000000.561446.562168
lc|9.39000001-40000000.623948.624652
lc|9.39000001-40000000.668387.669091
lc|9.39000001-40000000.994408.995103
lc|9.39000001-40000000.238678.239481
lc|9.39000001-40000000.374137.376209
lc|9.39000001-40000000.970706.971590
lc|9.39000001-40000000.475103.480598
lc|9.39000001-40000000.406399.407334
lc|9.39000001-40000000.448512.449471
lc|9.39000001-40000000.660035.660949
lc|9.40000001-41000000.38853.39749
lc|9.39000001-40000000.210928.211861
lc|9.39000001-40000000.918015.918953
lc|9.39000001-40000000.584725.591984
lc|9.39000001-40000000.428279.429214
lc|9.39000001-40000000.709464.710399
lc|9.40000001-41000000.106668.107591
lc|9.40000001-41000000.10447.20558
lc|9.39000001-40000000.186814.187740
lc|9.40000001-41000000.72505.73449
lc|9.39000001-40000000.515545.516510
lc|9.39000001-40000000.922747.950109
lc|9.39000001-40000000.249544.268228
lc|9.39000001-40000000.682870.683814
lc|9.38000001-39000000.73619.100162
lc|9.40000001-41000000.139050.139742
lc|9.38000001-39000000.147922.174913
lc|9.38000001-39000000.891107.892054

kdj9.38000001-39000000.622716.623651
kdj9.38000001-39000000.266332.267281
kdj9.38000001-39000000.228700.229629
kdj9.38000001-39000000.297297.308507
kdj9.38000001-39000000.290200.291129
kdj9.38000001-39000000.242799.243728
kdj9.38000001-39000000.207284.208213
kdj9.39000001-40000000.9161.22207
kdj9.38000001-39000000.865963.866901
kdj9.38000001-39000000.595258.596202
kdj9.38000001-39000000.515828.516520
kdj9.38000001-39000000.796748.797458
kdj9.38000001-39000000.447976.454744
kdj2.87000001-88000000.130683.131575
kdj2.87000001-88000000.310851.311723
kdj2.87000001-88000000.361568.362515
kdj2.87000001-88000000.114030.114989
kdj2.87000001-88000000.103739.104683
kdj7.98000001-99000000.342568.343497
kdj2.87000001-88000000.72217.79599
kdj2.87000001-88000000.92295.93236
kdj2.87000001-88000000.63852.64611
kdj2.87000001-88000000.17929.33753
kdj2.87000001-88000000.149721.150671
kdj2.87000001-88000000.583658.584762
kdjUn.60000001-61000000.108673.107783
kdj2.87000001-88000000.534045.535155
kdj2.87000001-88000000.678532.677467
kdj2.87000001-88000000.298865.289806
kdj2.87000001-88000000.383961.384902
kdj2.87000001-88000000.493650.494591
kdj2.87000001-88000000.703104.704045
kdj2.87000001-88000000.161480.169701
kdj2.87000001-88000000.188138.209395
kdj2.87000001-88000000.248568.249108
kdj2.86000001-87000000.871160.872008
kdj2.86000001-87000000.803525.804220
kdj2.86000001-87000000.838193.844108
kdj2.86000001-87000000.901984.910768
kdj2.87000001-88000000.8094.8792
kdj2.86000001-87000000.967324.968022
kdj2.86000001-87000000.961923.962855
kdj2.86000001-87000000.925998.926930
kdj19.13000001-14000000.340807.341754
kdj7.98000001-99000000.479123.480076
kdj7.98000001-99000000.301211.302038
kdj7.98000001-99000000.412777.413709
kdj7.98000001-99000000.454074.455042
kdj7.98000001-99000000.430900.431869
kdj7.98000001-99000000.466241.467242
kdjX.35000001-36000000.348905.349933
kdj10.13000001-131000000.635206.640905
kdjUn.135000001-136000000.735890.736701
kdj7.96000001-97000000.669130.670035
kdj2.88000001-89000000.339243.339947
kdj2.88000001-89000000.778003.778947
kdj2.88000001-89000000.322583.323617
kdj19.11000001-12000000.354067.358542
kdj19.11000001-12000000.287367.339916
kdj19.13000001-14000000.257453.287193
kdj19.13000001-14000000.328767.329726
kdj19.13000001-14000000.309983.310030
kdj6.42000001-43000000.741549.763762
kdj5.14200001-143000000.263831.264934
kdjX.57000001-58000000.783269.783958
kdj19.13000001-14000000.213847.214812
kdj9.40000001-41000000.383271.384016
kdj6.11700001-118000000.372457.373389
kdjUn.64000001-65000000.278178.278827
kdj1.92000001-93000000.923678.924618
kdj1.92000001-93000000.955477.956415
kdj7.50000001-60000000.876856.877767
kdj7.96000001-97000000.526787.542906
kdj6.43000001-44000000.40334.41269
kdj7.50000001-60000000.836278.836919
kdj7.50000001-60000000.855765.856676
kdj7.13000001-131000000.371623.372561
kdj7.13000001-131000000.412627.413583
kdj9.40000001-41000000.187281.188147
kdj9.40000001-41000000.199490.200320
kdj9.40000001-41000000.193731.194597
kdj9.40000001-41000000.269980.287714
kdj9.40000001-41000000.216199.217131
kdj9.40000001-41000000.170427.171296
kdj9.40000001-41000000.152537.153406
kdj9.40000001-41000000.146385.147248
kdj9.39000001-40000000.771042.771743
kdj9.39000001-40000000.174292.175224
kdj9.39000001-40000000.884815.901553
kdj2.89000001-90000000.802328.803227
kdj2.89000001-90000000.479573.480305
kdj2.89000001-90000000.931877.932803
kdj2.89000001-90000000.763699.791702
kdj2.89000001-90000000.521640.522390
kdj2.89000001-90000000.415342.416111
kdj2.89000001-90000000.425462.447298
kdj2.89000001-90000000.864848.867071
kdj2.89000001-90000000.899648.900571

k|j|2.89000001-9000000.717806.718223
k|j|2.89000001-9000000.944670.952282
k|j|17.42000001-43000000.307778.315184
k|j|2.91000001-92000000.304766.319980
k|j|2.91000001-92000000.268885.269802
k|j|2.91000001-92000000.229652.230607
k|j|2.91000001-92000000.163354.164064
k|j|Uh.130000001-131000000.606545.607375
k|j|2.91000001-92000000.348025.348980
k|j|2.91000001-92000000.113615.115874
k|j|2.91000001-92000000.196502.199837
k|j|2.91000001-92000000.188451.189221
k|j|2.90000001-91000000.452493.453410
k|j|2.90000001-91000000.398517.399461
k|j|2.90000001-91000000.682869.694931
k|j|2.90000001-91000000.864919.865574
k|j|2.90000001-91000000.474125.474961
k|j|2.90000001-91000000.441129.441968
k|j|2.90000001-91000000.528961.529881
k|j|2.90000001-91000000.600090.601007
k|j|2.90000001-91000000.126574.145139
k|j|2.90000001-91000000.361727.362222
k|j|2.90000001-91000000.88199.88993
k|j|2.90000001-91000000.283587.284399
k|j|2.90000001-91000000.46871.57617
k|j|2.90000001-91000000.224120.224932
k|j|2.90000001-91000000.201717.202532
k|j|Uh.132000001-133000000.238597.239381
k|j|2.89000001-90000000.864589.865287
k|j|2.90000001-91000000.188942.189877
k|j|2.91000001-92000000.92966.93887
k|j|2.90000001-91000000.375636.376553
k|j|2.90000001-91000000.924827.925732
k|j|2.90000001-91000000.896960.897832
k|j|2.91000001-92000000.23494.24423
k|j|2.89000001-90000000.852241.853055
k|j|2.89000001-90000000.886989.887918
k|j|2.91000001-92000000.10181.11056
k|j|2.90000001-91000000.962391.963320
k|j|2.90000001-91000000.339252.343728
k|j|2.90000001-91000000.332954.333871
k|j|9.4000001-41000000.295340.296344
k|j|19.11000001-12000000.592819.593763
k|j|19.11000001-12000000.543018.558779
k|j|19.11000001-12000000.572073.572942
k|j|19.11000001-12000000.582921.583721
k|j|19.11000001-12000000.519885.520682
k|j|15.98000001-10000000.136793.142862
k|j|15.98000001-10000000.117625.128402
k|j|15.98000001-10000000.97023.99437
k|j|10.13000001-131000000.864108.864885
k|j|10.13000001-131000000.839990.840732
k|j|10.13000001-131000000.822853.824256
k|j|17.38000001-37000000.828810.829779
k|j|2.86000001-87000000.738677.739612
k|j|11.59000001-60000000.117480.118446
k|j|X.35000001-36000000.301060.302049
k|j|7.5000001-6000000.889964.890917
k|j|10.129000001-130000000.658896.659690
k|j|10.129000001-130000000.666349.667278
k|j|10.130000001-131000000.299144.260076
k|j|10.129000001-130000000.833690.834627
k|j|10.13000001-131000000.426841.427457
k|j|10.129000001-130000000.743257.762403
k|j|10.129000001-130000000.956619.967678
k|j|10.13000001-131000000.299029.312444
k|j|10.129000001-130000000.809520.810674
k|j|10.13000001-131000000.276772.277505
k|j|10.129000001-130000000.977998.978876
k|j|10.13000001-131000000.374297.375232
k|j|10.129000001-130000000.837096.837965
k|j|10.13000001-131000000.595813.611835
k|j|10.13000001-131000000.221380.222231
k|j|10.13000001-131000000.31381.32340
k|j|10.13000001-131000000.321417.322373
k|j|10.13000001-131000000.733183.734121
k|j|Uh.49000001-50000000.386108.387040
k|j|10.13000001-131000000.113257.114195
k|j|10.13000001-131000000.356571.357515
k|j|10.129000001-130000000.823906.824841
k|j|10.13000001-131000000.441273.442211
k|j|10.13000001-131000000.178928.177767
k|j|10.13000001-131000000.78395.78333
k|j|10.13000001-131000000.333693.350417
k|j|Uh.49000001-50000000.616875.618522
k|j|10.129000001-130000000.713249.714896
k|j|10.13000001-131000000.452188.452831
k|j|10.13000001-131000000.405133.405913
k|j|10.13000001-131000000.497537.498358
k|j|14.45000001-46000000.372361.373302
k|j|10.13000001-131000000.151466.152434
k|j|10.129000001-130000000.729255.730184
k|j|Uh.49000001-50000000.632113.633042
k|j|14.42000001-43000000.929402.935866
k|j|14.42000001-43000000.519191.520145
k|j|14.42000001-43000000.551680.576748
k|j|14.42000001-43000000.379532.380508
k|j|14.42000001-43000000.242295.263886

klj14.44000001-45000000.25322.254278
klj14.44000001-45000000.273428.274384
klj14.44000001-45000000.212472.213298
klj14.44000001-45000000.232291.236425
klj14.44000001-45000000.329996.330928
klj14.44000001-45000000.356933.357874
klj14.44000001-45000000.314634.315320
klj14.42000001-43000000.168424.169193
klj14.41000001-42000000.740298.741224
klj2.112000001-113000000.265494.266185
klj2.112000001-113000000.251847.259562
klj2.112000001-113000000.550124.555563
kljUn.80000001-81000000.324049.324725
klj2.112000001-113000000.683700.684398
klj2.112000001-113000000.297198.297879
kljUn.109000001-110000000.563870.564561
klj2.112000001-113000000.205804.206489
klj2.112000001-113000000.373547.379175
klj2.112000001-113000000.573757.578012
klj2.112000001-113000000.418277.438242
klj2.112000001-113000000.592940.613326
klj2.112000001-113000000.493519.494484
klj14.41000001-42000000.929537.930599
klj14.41000001-42000000.943853.973389
klj2.112000001-113000000.245704.246621
klj14.41000001-42000000.993832.994835
klj15.99000001-100000000.250104.253331
klj15.99000001-100000000.222667.223626
klj15.99000001-100000000.287462.288391
klj15.99000001-100000000.346214.347140
klj15.99000001-100000000.361343.368236
klj14.42000001-43000000.130976.131902
klj14.42000001-43000000.148042.148968
klj13.20000001-210000000.496221.497099
klj16.3000001-40000000.287084.288022
klj11.51000001-52000000.386341.389729
klj11.51000001-52000000.426410.427333
klj11.51000001-52000000.404469.405392
klj8.71000001-72000000.496863.497804
klj16.3000001-40000000.39119.40060
klj2.91000001-92000000.99291.100097
klj2.91000001-92000000.71521.72330
klj2.91000001-92000000.80423.81337
klj2.91000001-92000000.57004.57936
klj11.74000001-75000000.653306.654241
klj11.74000001-75000000.961952.970387
klj11.74000001-75000000.949598.950431
klj11.74000001-75000000.729961.725517
klj11.74000001-75000000.747994.748931
klj11.74000001-75000000.643809.644756
klj11.74000001-75000000.911517.914063
klj11.74000001-75000000.803911.804612
klj11.74000001-75000000.814844.815785
klj11.74000001-75000000.458331.451343
klj11.74000001-75000000.375457.380827
klj11.74000001-75000000.268165.268836
klj11.74000001-75000000.531024.531728
kljX.36000001-37000000.9666.10610
klj11.74000001-75000000.402406.403113
klj11.74000001-75000000.417708.418646
klj11.74000001-75000000.509330.510268
klj11.74000001-75000000.490211.495669
klj11.74000001-75000000.390443.391378
klj11.74000001-75000000.564080.565027
klj11.74000001-75000000.543140.544117
klj11.73000001-74000000.955071.956015
klj11.73000001-74000000.971703.976774
klj11.74000001-75000000.194540.195478
kljUn.29000001-30000000.141245.142198
klj11.73000001-74000000.996155.997099
klj6.135000001-136000000.438656.457173
klj11.51000001-52000000.465853.466777
klj11.51000001-52000000.444791.445751
klj11.74000001-75000000.979988.980926
klj17.36000001-37000000.336768.337517
klj11.88000001-89000000.576751.577692
klj11.88000001-89000000.559616.560443
klj11.88000001-89000000.555037.555972
klj8.71000001-72000000.469302.483895
klj8.71000001-72000000.487117.488061
klj8.71000001-72000000.441064.442008
klj9.18000001-190000000.754190.754744
klj10.79000001-80000000.64188.65143
klj9.20000001-210000000.364691.365650
klj9.19000001-200000000.119661.136278
klj9.19000001-200000000.538653.539274
klj9.19000001-200000000.371544.372482
klj9.19000001-200000000.315762.316715
klj9.19000001-200000000.584741.586679
klj9.19000001-200000000.357018.357956
klj17.36000001-370000000.379490.384584
klj17.36000001-370000000.502034.511712
klj9.20000001-210000000.235913.236848
klj10.79000001-800000000.303030.303996
klj9.84000001-850000000.928554.940538
klj9.20000001-210000000.276968.277516
klj10.79000001-800000000.473897.474869
klj10.79000001-800000000.411555.411990

kd|10.79000001-8000000.355142.335972
kd|10.79000001-8000000.491526.492344
kd|10.79000001-8000000.426429.441153
kd|Un.51000001-5200000.617445.618295
kd|Un.11600001-11700000.19211.20167
kd|Un.51000001-5200000.608361.609317
kd|Un.81000001-8200000.891888.892844
kd|Un.77000001-7800000.832066.833016

Idlpep.Genscan.ctg9430.2.185562.188338
Idlpep.Genscan.ctg604.2.3250.9924
Idlpep.Genscan.ctg604.1.203250.209924
Idlpep.Genscan.ctg604.2.20651.26097
Idlpep.Genscan.ctg604.1.220851.226097
Idlpep.Genscan.ctg12201.5.242217.243230
Idlpep.Genscan.ctg12201.6.42217.43230
Idlpep.Genscan.ctg604.2.29431.30408
Idlpep.Genscan.ctg604.1.229431.230408
Idlpep.Genscan.ctg604.1.24213.24635
Idlpep.Genscan.ctg9424.1.78674.94511
Idlpep.Genscan.ctg14481.1.10976.20096
Idlpep.Genscan.NA64223.1.233.676
Idlpep.Genscan.ctg14481.1.24078.24521
Idlpep.Genscan.ctg604.1.33476.43818
Idlpep.Genscan.ctg604.1.48925.54233
Idlpep.Genscan.ctg14029.1.4622.5608
Idlpep.Genscan.ctg604.1.59165.97791
Idlpep.Genscan.ctg604.2.47019.48032
Idlpep.Genscan.ctg604.1.247019.248032
Idlpep.Genscan.ctg604.3.65893.66921
Idlpep.Genscan.ctg9424.2.152614.178703
Idlpep.Genscan.ctg9424.3.925.27014
Idlpep.Genscan.NA25219.1.286.906
Idlpep.Genscan.ctg12317.1.163870.164421
Idlpep.Genscan.ctg9424.1.236949.241235
Idlpep.Genscan.ctg9424.2.36949.41235
Idlpep.Genscan.ctg9424.3.141841.142817
Idlpep.Genscan.ctg9424.2.182769.195433
Idlpep.Genscan.ctg9424.3.31080.43744
Idlpep.Genscan.ctg9424.3.52002.58922
Idlpep.Genscan.NA32659.1.566.1499
Idlpep.Genscan.ctg14130.1.282613.283587
Idlpep.Genscan.ctg9424.1.56140.57195
Idlpep.Genscan.ctg25004.4.49468.50529
Idlpep.Genscan.ctg9424.1.77131.78132
Idlpep.Genscan.ctg12317.1.44321.82783
Idlpep.Genscan.ctg12317.1.186465.187472
Idlpep.Genscan.ctg12317.1.180557.181618
Idlpep.Genscan.ctg9424.1.133022.133020
Idlpep.Genscan.ctg12317.1.112975.136477
Idlpep.Genscan.ctg9424.1.142525.163825
Idlpep.Genscan.ctg9424.1.104888.111879

Idjpep.Genscan.ctg30335.1.52139.53236

PTGER

lc|scaffold_18.374552.376796
lc|scaffold_50.84406.89649
lc|scaffold_1572.6089.7558
lc|scaffold_951.86682.87968
lc|scaffold_343.84499.109850
lc|scaffold_263.151842.154008
lc|scaffold_463.50830.52312
lc|scaffold_204.4435.6490
lc|scaffold_109.44301.50030
lc|scaffold_1949.1173.3306
lc|scaffold_265.194297.195412
lc|scaffold_2255.14090.17405
lc|scaffold_715.37817.43256

Purin

lc|scaffold_593.6.698
lc|scaffold_2168.6773.8472
lc|scaffold_884.20177.27857
lc|scaffold_5359.5335.7500
lc|scaffold_1204.16350.17909
lc|scaffold_239.125398.138533
lc|scaffold_193.163922.164875
lc|scaffold_1642.6125.7261
lc|scaffold_100.112582.113583
lc|scaffold_593.4943.5947
lc|scaffold_1688.2854.32664
lc|scaffold_4368.57.10499
lc|scaffold_169.136279.138535
lc|scaffold_239.64420.79248
lc|scaffold_193.161071.162205
lc|scaffold_239.122027.122945
lc|scaffold_1161.55218.64349
lc|scaffold_119.194247.195235
lc|scaffold_1393.41549.44355
lc|scaffold_1026.17580.19510
lc|scaffold_2150.57.992
lc|scaffold_2900.989.14286
lc|scaffold_1993.11106.25106
lc|scaffold_119.190635.191711
lc|scaffold_1393.36845.38080
lc|scaffold_1266.52828.54009

SOG

lc|scaffold_3097.16211.18657
lc|scaffold_435.149000.153922
lc|scaffold_544.38299.39818
lc|scaffold_339.77202.79642
lc|scaffold_93.156195.157223
lc|scaffold_301.134606.135435
lc|scaffold_101.241360.259580
lc|scaffold_2051.30766.31251
lc|scaffold_643.17436.25071

Supplementary Table 3e

Unclassified	Amin	CHEMO	LGR	MEC	MTN	OPN	PEPTIDE	PTGER	SOG
lcl ci0100131416	lcl ci0100132133	lcl ci0100143923	lcl ci0100133821	lcl ci0100145160	lcl ci0100131681	lcl ci0100132620	lcl ci0100139176	lcl ci0100147407	lcl ci0100133550
lcl ci0100130034	lcl ci0100144205	lcl ci0100130858	lcl ci0100151424	lcl ci0100148112	lcl ci0100136041	lcl ci0100143990	lcl ci0100147669	lcl ci0100153844	lcl ci0100130986
lcl ci0100144205	lcl ci0100130090	lcl ci0100142526	lcl ci0100146152	lcl ci0100138509	lcl ci0100132083	lcl ci0100148961	lcl ci0100144874		lcl ci0100130259
lcl ci0100130090	lcl ci0100146328	lcl ci0100130111	lcl ci0100150268	lcl ci0100147526	lcl ci0100153785	lcl ci0100131351	lcl ci0100139179		lcl ci0100150840
lcl ci0100130445	lcl ci0100130320	lcl ci0100133186	lcl ci0100141514	lcl ci0100154135			lcl ci0100153613		lcl ci0100140366
lcl ci0100151346	lcl ci0100137803	lcl ci0100143362	lcl ci0100139291	lcl ci0100137752			lcl ci0100147236		lcl ci0100150689
lcl ci0100142144	lcl ci0100134273	lcl ci0100143330	lcl ci0100143219	lcl ci0100131828			lcl ci0100143040		lcl ci0100136241
lcl ci0100146152	lcl ci0100151600		lcl ci0100153810	lcl ci0100131120			lcl ci0100153146		lcl ci0100153327
lcl ci0100137752	lcl ci0100137389		lcl ci0100134424	lcl ci0100148350			lcl ci0100152622		lcl ci0100143261
lcl ci0100131120	lcl ci0100137823		lcl ci0100142069	lcl ci0100149095			lcl ci0100133065		lcl ci0100143330
lcl ci0100143146	lcl ci0100138913		lcl ci0100149830	lcl ci0100138955			lcl ci0100134571		lcl ci0100146266
lcl ci0100154142	lcl ci0100130445		lcl ci0100145358	lcl ci0100145235			lcl ci0100143568		lcl ci0100131140
lcl ci0100135081	lcl ci0100146763		lcl ci0100150116	lcl ci0100141764			lcl ci0100142337		lcl ci0100141702
lcl ci0100154445	lcl ci0100154093		lcl ci0100148475	lcl ci0100130574			lcl ci0100143093		lcl ci0100145437
lcl ci0100134756	lcl ci0100151346		lcl ci0100141745	lcl ci0100143300			lcl ci0100141751		lcl ci0100133606
lcl ci0100135689	lcl ci0100142144		lcl ci0100151225	lcl ci0100136887			lcl ci0100149471		lcl ci0100144360
lcl ci0100148961	lcl ci0100137935		lcl ci0100144368	lcl ci0100132478					lcl ci0100143057
lcl ci0100152581	lcl ci0100144199		lcl ci0100148400						lcl ci0100141602
lcl ci0100147669	lcl ci0100141384		lcl ci0100144713						
lcl ci0100147236	lcl ci0100131137		lcl ci0100130612						
lcl ci0100153326	lcl ci0100134145		lcl ci0100137355						
lcl ci0100146193	lcl ci0100140881		lcl ci0100148454						
lcl ci0100152713	lcl ci0100131826		lcl ci0100153351						
lcl ci0100154564			lcl ci0100144925						
lcl ci0100130259			lcl ci0100132380						
lcl ci0100136241			lcl ci0100131758						
			lcl ci0100142353						
			lcl ci0100147271						
			lcl ci0100149551						
			lcl ci0100154507						
			lcl ci0100154530						
			lcl ci0100143701						
			lcl ci0100142029						
			lcl ci0100141547						
			lcl ci0100148288						
			lcl ci0100147431						

Supplementary Table 3d

Unclassified	Amin	LGR	MEC	MTN	OPN	PEPTIDE	SOG
gi 7301453 gb AAAF56578.1 CG12290	gi 7290762 gb AAF46208.1 CG12796	gi 7292844 gb AAF48237.1 CG4187	gi 10726863 gb AAF57012.2 CG9753	gi 7290248 gb AAF45710.1 EG-22E5.10	gi 7292490 gb AAF47893.1 CG18314	gi 7301410 gb AAF56536.1 CG6111	gi 7301695 gb AAF56909.1 CG10001
gi 7293436 gb AAF48812.1 CG5936	gi 7300302 gb AAF55463.1 CG17431	gi 7301363 gb AAF56490.1 CG5042	gi 10728777 gb AAF53367.2 Ik	gi 7290610 gb AAF46059.1 Tre	gi 7300031 gb AAF55202.1 Rh6	gi 7297064 gb AAF52333.1 CG13995	gi 10728449 gb AAF45864.2 AaHR
gi 7290247 gb AAF45709.1 EG-22E5.11	gi 7300647 gb AAF55796.1 Oamb	gi 7300648 gb AAF55797.1 Oamb gene	gi 7300299 gb AAF55460.1 Fsh		gi 10726630 gb AAG22157.1 Rh3	gi 7293505 gb AAF48879.1 CG6881	gi 10728449 gb AAG22404.1 AaHR
gi 7300726 gb AAF55872.1 CG5911	gi 10726848 gb AAF56908.2 CG18741	gi 7291031 gb AAF46469.1 CG12121			gi 7294610 gb AAF49949.1 CG5638	gi 7293500 gb AAF48875.1 CG6857	gi 7293896 gb AAF49260.1 CG13702
gi 10727189 gb AAF47323.2 CG13406	gi 7291031 gb AAF46469.1 CG12121	gi 7293961 gb AAF48320.1 CG7497			gi 7297899 gb AAF53145.1 Rh5	gi 7297023 gb AAF52293.1 CG14003	gi 7293896 gb AAF49259.1 CG13702
gi 7291031 gb AAF46469.1 CG12121	gi 7293961 gb AAF48320.1 CG7497	gi 7296517 gb AAF51802.1 TyrR			gi 7294045 gb AAF49400.1 Rh4	gi 7294588 gb AAF49928.1 CG10698	
gi 7293961 gb AAF48320.1 CG7497	gi 7291767 gb AAF47188.1 CG13575	gi 7296500 gb AAF54834.1 CG6889			gi 7300560 gb AAF55712.1 ninaE	gi 7297159 gb AAF52426.1 GRHR	
gi 7291961 gb AAF47377.1 CG17064	gi 7302858 gb AAF57931.1 CG15614	gi 7300871 gb AAF56012.1 CG6919			gi 7300445 gb AAF55601.1 Rh2	gi 10728149 gb AAF57285.2 CG14593	
gi 7302858 gb AAF57931.1 CG15614	gi 7290528 gb AAF45980.1 CG6986	gi 10726374 gb AAF54188.2 CG7918				gi 7302742 gb AAF57820.1 CG18192	
gi 7290528 gb AAF45980.1 CG6986	gi 7294899 gb AAF50229.1 CG16726	gi 7291777 gb AAF47197.1 mAcR-60C				gi 7299839 gb AAF55016.1 CG9918	
gi 7294899 gb AAF50229.1 CG16726	gi 7292225 gb AAF47633.1 CG8985	gi 7300301 gb AAF55462.1 CG16766				gi 7299749 gb AAF54930.1 CG8784	
gi 7292225 gb AAF47633.1 CG8985	gi 7292223 gb AAF47633.1 CG13803	gi 7289287 gb AAF45375.1 CG17004				gi 7299748 gb AAF54929.1 CG8795	
gi 10728449 gb AAG22404.1	gi 7293896 gb AAF49260.1 CG13702	gi 7302527 gb AAF57610.1 5-HT1B				gi 7300752 gb AAF55878.1 CG10823	
gi 7293896 gb AAF49260.1 CG13702	gi 7299647 gb AAF54831.1 CG7078	gi 7302520 gb AAF57603.1 5-HT1A				gi 7296628 gb AAF51909.1 CG1147	
gi 7293896 gb AAF49259.1 CG7285	gi 7302000 gb AAF57104.1 5-HT7	gi 7291790 gb AAF47210.1 CG13579				gi 10727804 gb AAF49074.2 CG7395	
		gi 7299053 gb AAF54254.1 CG7994				gi 7299352 gb AAF54544.1 TaktR86C	
		gi 10728392 gb AAF54255.2 CG8007				gi 7301534 gb AAF56655.1 NegpY	
		gi 7296837 gb AAF52113.1 5-HT2				gi 7295460 gb AAF50775.1 CG10626	
		gi 7299647 gb AAF54831.1 CG7078				gi 7301870 gb AAF56979.1 TaktR99D	
		gi 7302000 gb AAF57104.1 5-HT7				gi 7303666 gb AAF58717.1 CG13229	
						gi 7292292 gb AAF47700.1 CG2114	

Supplementary Table 3g

Unclassified
lcj0010818321AAAB01008859AAAB01008859_2382R25576317
lcj00029780002442AAAB01008859AAAB01008859_3432R222968001
lcj00110380008547AAAB01008844AAAB01008844_1423R15955416
lcj0017410014921AAAB01008987AAAB01008987_3982R6265512
lcj00249630014921AAAB01008987AAAB01008987_3982R6265512
lcj0022700019781AAAB01008948AAAB01008948_422L5603671
lcj0011483008994AAAB01008948AAAB01008948_1072L7244794
lcj00208740018365AAAB01008987AAAB01008987_1882R11516580

Amis
lcj00015310001296AAAB01008847AAAB01008847_20X11817967
lcj00047310003695AAAB01008846AAAB01008846_423X896886
lcj00192540018765AAAB01008846AAAB01008846_3X11100586
lcj0020598018109AAAB01008933AAAB01008933_203L405018
lcj343327AAAB01008897AAAB01008897_524715556_definition_line
lcj00040470003214AAAB01008817AAAB01008817_82R49964183
lcj0003493966AAAB0100898AAAB0100898_1082R58279518
lcj0001444001231AAAB01008952AAAB01008952_262R60206736
lcj0004842000378AAAB0100896AAAB0100896_223L24312828
lcj0003150002047AAAB0100895AAAB0100895_3732R22204378
lcj00188390016350AAAB01008807AAAB01008807_236L42888095
lcj0010940008505AAAB01008817AAAB01008817_82R49972057
lcj0012916010427AAAB0100880AAAB0100880_592R53860017
lcj0006274772AAAB01008799AAAB01008799_482R17802760
lcj00134610010972AAAB01008799AAAB01008799_462R17848581
lcj0018620016173AAAB0100859AAAB0100859_1082R2894483
lcj00188040016315AAAB0100859AAAB0100859_1092R28908262
lcj00129080010419AAAB0100880AAAB0100880_1032R53949904

LR
lcj00066760005043AAAB01008964AAAB01008964_1123R952552
lcj00183620015873AAAB01008987AAAB01008987_2172R10797178
lcj00040490003215AAAB01008817AAAB01008817_102R50036512

MEC
lcj00100520007563AAAB01008846AAAB01008846_181X6791096
lcj00207420018253AAAB01008846AAAB01008846_139X7834243

MTN
lcj00116560009167AAAB01008967AAAB01008967_4222R5680747
lcj0011477000898AAAB01008987AAAB01008987_4222R5688632

OPN
lcj00216680019179AAAB01008960AAAB01008960_1902L181241
lcj0001159996AAAB01008859AAAB01008859_4032R21458419
lcj00148460012357AAAB01008859AAAB01008859_4022R21477
lcj00121160009677AAAB01008987AAAB01008987_622R666907
lcj00192170016728AAAB01008980AAAB01008980_5063R49494
lcj00107310008242AAAB01008807AAAB01008807_762L469106
lcj002195001556AAAB0100895AAAB0100895_3832R21514
lcj00177080015219AAAB01008960AAAB01008960_5332L264451
lcj0012077000958AAAB01008987AAAB01008987_622R66586
lcj00230700020270AAAB01008987AAAB01008987_622R67380
lcj00119490009460AAAB01008987AAAB01008987_622R67158
lcj00121310009642AAAB01008987AAAB01008987_6192R73604

PEP'DE

IC|001184080015920AAAB01008987AAA01008987_1332R12906883
IC|001184020015913AAAB01008987AAA01008987_1332R12913824
IC|0004630004193AAAB01008911AAAB01008911_94X19630208
IC|001198220016873AAAB0100879AAAB01008799_372R16572521
IC|001181650015676AAAB01008987AAA01008987_4002R6215421
IC|001187300039193AAAB01008987AAA01008987_4132R6580401
IC|0011301000812AAAB0100898AAAB01008986_702R4262175
IC|00114810011992AAAB0100896AAAB01008966_353L24001145
IC|0010871000832AAAB0100896AAAB01008966_222L2972326
IC|002307002629AAAB0100890AAAB01008900_161Q_119611950
IC|00032950002658AAAB0100879AAAB0100879_1152R34406219
IC|00015260001292AAAB01008947AAAB01008847_17X11723906
IC|00204100017321AAAB0100879AAAB0100879_262R3221853
IC|00040930003249AAAB0100879AAAB01008794_72R34621479
IC|00229420002658AAAB0100879AAAB0100879_1152R34406219
IC|00174310014942AAAB0100897AAAB0100897_407R4441609
IC|00133590010870AAAB0100896AAAB01008966_1493L37561676
IC|00152880012799AAAB0100896AAAB01008966_2613L34749314
IC|00219410019452AAAB0100816AAAB0100816_1443L1747308
IC|00204410017952AAAB01008880AAAB01008880_312R52146392
IC|00118060009317AAAB0100896AAAB01008966_273L40629452
IC|00148200012046AAAB010084AAAB01008704_362R37239533
IC|0016187001369AAAB0100899AAAB01008995_1412R2801678
IC|00200100017521AAAB0100884AAAB01008846_378X1865162
IC|00162010010712AAAB0100882AAAB01008823_1063L10950109
IC|0015560001307AAAB010086AAAB01008646_2050187890
IC|00181430015654AAAB0100887AAAB0100887_3882R6527327
IC|00012690001088AAAB0100895AAAB01008955_362L3641780
IC|00167050015219AAAB0100895AAAB01008955_1172R28618034

SQO

IC|00196290017140AAAB0100888AAAB01008888_822R43175570
IC|00180710015582AAAB0100879AAAB01008795_43L3329391
IC|00090530006798AAAB0100896AAAB01008966_953L38926892

Supplementary Table 3h

Unclassified	Amin	GPCR	MED	OPN	PEPIDE	SOG
g 1756242 ref NP_503405.1 7S2TAL.1.p	g 17567023 ref NP_508760.1 G-protein coupled receptor	g 17558810 ref NP_505548.1 steroid hormone receptor	g 17536363 ref NP_496667.1 adenosine A1 receptor	g 17538030 ref NP_495564.1 G-protein coupled receptor	g 17543260 ref NP_502887.1 Y105C6A.23.p	g 175361070 ref NP_495481.1 T07F8.2.p
g 17553786 ref NP_498999.1 possible G protein coupled	g 17567023 ref NP_508760.1 G-protein coupled receptor				g 175580040 ref NP_506566.1 G-protein coupled receptor	g 175361070 ref NP_495481.1 T07F8.2.p
g 17540944 ref NP_502147.1 7 transmembrane receptor	g 17566663 ref NP_492273.1 7 transmembrane receptor				g 175518530 ref NP_510477.1 7 transmembrane receptor	g 175361070 ref NP_495481.1 T07F8.2.p
g 17569797 ref NP_505926.1 possible G protein coupled	g 175698713 ref NP_493394.1 seven trans-membrane receptor				g 175693930 ref NP_493193.1 nocodone receptor like	g 175421480 ref NP_503107.1 7 transmembrane receptor
g 17509807 ref NP_490992.1 Y23H5B.4.p	g 175534823 ref NP_498383.1 P47D12.1.p				g 175699830 ref NP_510779.1 G-protein coupled receptor	g 175402880 ref NP_501164.1 G-protein coupled receptor
g 17538428 ref NP_500342.1 CDAC3.6.p	g 175663774 ref NP_509093.1 Muscarinic acetylcholine receptor				g 175375020 ref NP_497207.1 7 transmembrane receptor	g 175707650 ref NP_508006.1 G-protein coupled receptor
g 17551626 ref NP_495241.1 CD385.5.p	g 175654244 ref NP_504608.1 muscarinic acetylcholine receptor				g 175557020 ref NP_497491.1 7 transmembrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17562626 ref NP_506776.1 7 transmembrane receptor	g 175698093 ref NP_509106.1 G-protein coupled receptor (family				g 175091890 ref NP_491918.1 G-protein coupled receptor	g 175693930 ref NP_510833.1 G-protein coupled receptor
g 17564728 ref NP_506844.1 7 transmembrane receptor	g 175624444 ref NP_505478.1 dopamine receptor like				g 175514380 ref NP_508769.1 seven transmembrane receptor	g 175707650 ref NP_508006.1 G-protein coupled receptor
g 17570620 ref NP_508895.1 hormone receptor	g 175550520 ref NP_508784.1 G-protein coupled receptor				g 175619500 ref NP_504298.1 H22D07.1.p	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17534961 ref NP_493779.1 K07E8.5.p	g 175514000 ref NP_509184.1 G-protein coupled receptor				g 175075890 ref NP_491453.1 seven-transmembrane receptor	g 175707650 ref NP_508006.1 G-protein coupled receptor
g 17535601 ref NP_494720.1 R11F4.2.p	g 175556060 ref NP_497452.1 Y22D7AR.13.p				g 175350390 ref NP_493666.1 seven trans-membrane receptor	g 175707650 ref NP_508006.1 G-protein coupled receptor
g 17535601 ref NP_495204.1 Myotonic-releasing hormone	g 175619762 ref NP_505884.1 G-protein coupled receptor				g 175510700 ref NP_509515.1 family 1 G-protein coupled	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17551648 ref NP_508866.1 G-protein coupled receptor	g 175694470 ref NP_510684.1 G-protein coupled receptor, family				g 175647320 ref NP_509570.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17537225 ref NP_496818.1 Y48C3A.11.p	g 175562264 ref NP_508474.1 G-protein coupled receptor				g 175393370 ref NP_501370.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17543238 ref NP_501174.1 Y40C5A.4.p	g 175688860 ref NP_508839.1 G-protein coupled receptor				g 175660440 ref NP_503168.1 seven trans-membrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17560622 ref NP_505436.1 F36D4.4.p	g 175505960 ref NP_508739.1 G-protein coupled receptor				g 175666760 ref NP_506859.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175500600 ref NP_508147.1 C02H7.2.p	g 175511870 ref NP_508238.1 G-protein coupled receptor				g 175676070 ref NP_509725.1 neurexin receptor like	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175607160 ref NP_505153.1 F38E1.8.p	g 175694480 ref NP_510535.1 octopamine receptor				g 175425140 ref NP_501071.1 seven transmembrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175569330 ref NP_498545.1 ZK418.6.p	g 175516820 ref NP_508947.1 G-protein coupled receptor				g 175691210 ref NP_508816.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175517440 ref NP_498239.1 B0244.7.p					g 175506420 ref NP_508234.1 G-protein coupled receptor family	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 17558231 ref NP_506809.1 7 transmembrane receptor					g 175511400 ref NP_510163.1 7 transmembrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175691950 ref NP_510555.1 steroid hormone receptor					g 175386500 ref NP_502162.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175563040 ref NP_497744.1 G-protein coupled receptor					g 175506840 ref NP_510101.1 7 transmembrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175419400 ref NP_501055.1 R13M7.2.p					g 175674030 ref NP_510612.1 7 transmembrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175682950 ref NP_510580.1 G-protein coupled receptor					g 175553700 ref NP_499264.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175500040 ref NP_509541.1 B0563.6.p					g 175329290 ref NP_508830.1 seven trans-membrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175430700 ref NP_500401.1 3T611A.L.1.p					g 175438320 ref NP_501460.1 Y9H11.L.1.p	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175412200 ref NP_500093.1 K03H6.5.p					g 175381760 ref NP_500725.1 G-protein coupled receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175407780 ref NP_501332.1 seven trans-membrane receptor					g 175057770 ref NP_491990.1 seven trans-membrane receptor	g 175520760 ref NP_498743.1 G-protein coupled receptor
g 175506220 ref NP_508115.1 alpha adrenergic receptor						
g 175644280 ref NP_504747.1 T18F1.4.p						
g 175482120 ref NP_508414.1 transmembrane domain of family 1						
g 175676650 ref NP_510455.1 G-protein coupled receptor						
g 175433780 ref NP_500195.1 Y41DA4.8.p						
g 175622460 ref NP_505301.1 G-protein coupled receptor						
g 175622480 ref NP_505300.1 transmembrane protein						
g 175642660 ref NP_506004.1 C08F1.6.p						
g 175600000 ref NP_505360.1 F21C10.9.p						
g 175098970 ref NP_493283.1 7 transmembrane receptor						
g 175512060 ref NP_509248.1 G-protein coupled receptors						
g 175509520 ref NP_508965.1 G-protein coupled receptor						
g 175516460 ref NP_509865.1 G-protein coupled receptor						
g 175509080 ref NP_505101.1 D1014.2.p						
g 175642620 ref NP_505903.1 G-protein coupled receptor						
g 175314230 ref NP_494751.1 C01F1.4.p						
g 175569330 ref NP_498546.1 ZK418.7.p						
g 175624620 ref NP_506168.1 G-protein coupled receptor						
g 175325560 ref NP_494987.1 C54A12.2.p						
g 175590060 ref NP_506353.1 TIM receptor						
g 175666690 ref NP_492672.1 TIM receptor						
g 175538720 ref NP_497125.1 G-protein coupled receptor						
g 175412120 ref NP_500092.1 K03H6.1.p						
g 175681310 ref NP_510432.1 7 transmembrane receptor						
g 175517420 ref NP_498241.1 B0244.6.p						
g 175360980 ref NP_495888.1 G-protein coupled receptor						
g 175637680 ref NP_506983.1 G-protein coupled receptor						
g 175626220 ref NP_506777.1 7 transmembrane receptor						
g 175647300 ref NP_506845.1 7 transmembrane receptor						
g 175505120 ref NP_509379.1 C17H11.1.p						
g 175618620 ref NP_505724.1 7 transmembrane receptor						
g 175444040 ref NP_503056.1 7 transmembrane receptor						