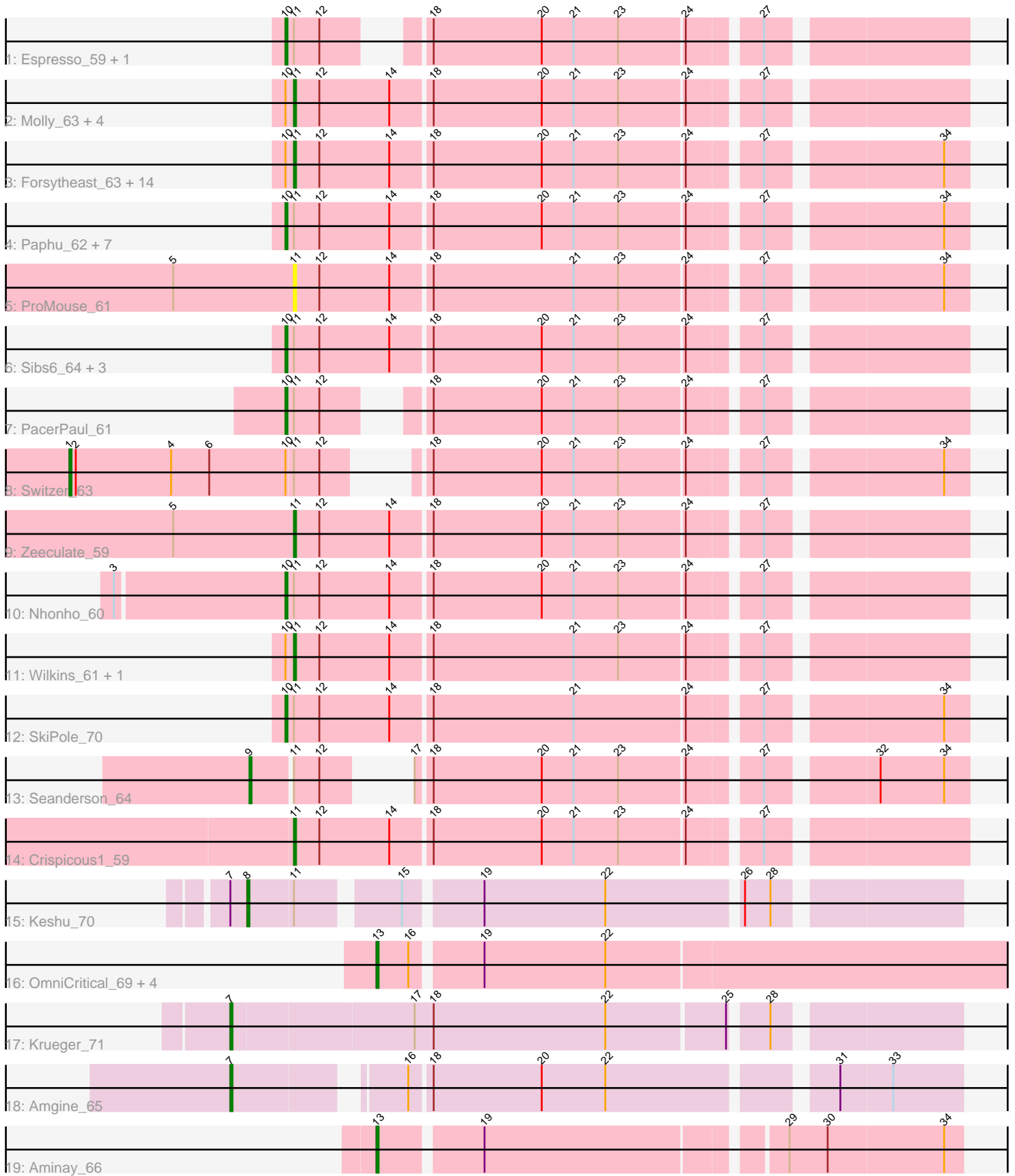


Pham 194066



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 194066 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194066 has 53 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Espresso_59, HarryOW_60
- Track 2 : Molly_63, Killigrew_61, Briton15_66, McGuire_63, Zephyr_63
- Track 3 : Forsytheast_63, Adahisdi_62, Kykar_63, HermioneGrange_64, Moose_63, Bones_61, Cueylyss_62, U2_60, IgnatiusPatJac_62, BigMau_64, Parliament_64, Bob3_63, Bruns_63, SwissCheese_65, Arlo_60
- Track 4 : Paphu_62, Rohr_64, Petp2012_65, Museum_64, Tasp14_66, BluSpix_60, DreamCatcher_65, MPlant7149_62
- Track 5 : ProMouse_61
- Track 6 : Sibs6_64, Seabiscuit_65, HanShotFirst_63, Watermelon_62
- Track 7 : PacerPaul_61
- Track 8 : Switzer_63
- Track 9 : Zeeculate_59
- Track 10 : Nhonho_60
- Track 11 : Wilkins_61, Topgun_60
- Track 12 : SkiPole_70
- Track 13 : Seanderson_64
- Track 14 : Crispicous1_59
- Track 15 : Keshu_70
- Track 16 : OmniCritical_69, Ruthiejr_71, Y10_67, Y2_67, JF1_70
- Track 17 : Krueger_71
- Track 18 : Amgine_65
- Track 19 : Aminay_66

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 11, it was called in 24 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adahisdi_62, Arlo_60, BigMau_64, Bob3_63, Bones_61, Briton15_66, Bruns_63, Crispicous1_59, Cueylyss_62, Forsytheast_63, HermioneGrange_64, IgnatiusPatJac_62, Killigrew_61, Kykar_63, McGuire_63, Molly_63, Moose_63, Parliament_64, ProMouse_61, SwissCheese_65, Topgun_60, U2_60, Wilkins_61, Zeeculate_59, Zephyr_63,

Genes that have the "Most Annotated" start but do not call it:

- BluSpix_60, DreamCatcher_65, Espresso_59, HanShotFirst_63, HarryOW_60, Keshu_70, MPlant7149_62, Museum_64, Nhonho_60, PacerPaul_61, Paphu_62, Petp2012_65, Rohr_64, Seabiscuit_65, Seanderson_64, Sibs6_64, SkiPole_70, Switzer_63, Tasp14_66, Watermelon_62,

Genes that do not have the "Most Annotated" start:

- Amgine_65, Aminay_66, JF1_70, Krueger_71, OmniCritical_69, Ruthiejr_71, Y10_67, Y2_67,

Summary by start number:

Start 1:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Switzer_63 (A1),

Start 7:

- Found in 3 of 53 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Amgine_65 (K6), Krueger_71 (K6),

Start 8:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keshu_70 (K3),

Start 9:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Seanderson_64 (A1),

Start 10:

- Found in 40 of 53 (75.5%) of genes in pham
- Manual Annotations of this start: 17 of 52
- Called 42.5% of time when present
- Phage (with cluster) where this start called: BluSpix_60 (A1), DreamCatcher_65 (A1), Espresso_59 (A1), HanShotFirst_63 (A1), HarryOW_60 (A1), MPlant7149_62 (A1), Museum_64 (A1), Nhonho_60 (A1), PacerPaul_61 (A1), Paphu_62 (A1), Petp2012_65 (A1), Rohr_64 (A1), Seabiscuit_65 (A1), Sibs6_64 (A1), SkiPole_70 (A1), Tasp14_66 (A1), Watermelon_62 (A1),

Start 11:

- Found in 45 of 53 (84.9%) of genes in pham
- Manual Annotations of this start: 24 of 52
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Adahisdi_62 (A1), Arlo_60 (A1), BigMau_64 (A1), Bob3_63 (A1), Bones_61 (A1), Briton15_66 (A1), Bruns_63 (A1),

Crispicous1_59 (A1), Cueylyss_62 (A1), Forsytheast_63 (A1), HermioneGrange_64 (A1), IgnatiusPatJac_62 (A1), Killigrew_61 (A1), Kykar_63 (A1), McGuire_63 (A1), Molly_63 (A1), Moose_63 (A1), Parliament_64 (A1), ProMouse_61 (A1), SwissCheese_65 (A1), Topgun_60 (A1), U2_60 (A1), Wilkins_61 (A1), Zeeculate_59 (A1), Zephyr_63 (A1),

Start 13:

- Found in 6 of 53 (11.3%) of genes in pham
- Manual Annotations of this start: 6 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_66 (K7), JF1_70 (K4), OmniCritical_69 (K4), Ruthiejr_71 (K4), Y10_67 (K4), Y2_67 (K4),

Summary by clusters:

There are 5 clusters represented in this pham: A1, K3, K7, K6, K4,

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 1 time for cluster A1.
- Start number 9 was manually annotated 1 time for cluster A1.
- Start number 10 was manually annotated 17 times for cluster A1.
- Start number 11 was manually annotated 24 times for cluster A1.

Info for manual annotations of cluster K3:

- Start number 8 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:

- Start number 13 was manually annotated 5 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 7 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 13 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Adahisdi_62 Start: 42536, Stop: 42240, Start Num: 11

Candidate Starts for Adahisdi_62:

(Start: 10 @42539 has 17 MA's), (Start: 11 @42536 has 24 MA's), (12, 42524), (14, 42491), (18, 42473), (20, 42422), (21, 42407), (23, 42386), (24, 42356), (27, 42326), (34, 42251),

Gene: Amgine_65 Start: 44496, Stop: 44807, Start Num: 7

Candidate Starts for Amgine_65:

(Start: 7 @44496 has 2 MA's), (16, 44565), (18, 44574), (20, 44625), (22, 44655), (31, 44751), (33, 44775),

Gene: Aminay_66 Start: 43144, Stop: 43401, Start Num: 13

Candidate Starts for Aminay_66:

(Start: 13 @43144 has 6 MA's), (19, 43189), (29, 43321), (30, 43339), (34, 43393),

Gene: Arlo_60 Start: 40881, Stop: 40585, Start Num: 11

Candidate Starts for Arlo_60:

(Start: 10 @40884 has 17 MA's), (Start: 11 @40881 has 24 MA's), (12, 40869), (14, 40836), (18, 40818), (20, 40767), (21, 40752), (23, 40731), (24, 40701), (27, 40671), (34, 40596),

Gene: BigMau_64 Start: 41801, Stop: 41505, Start Num: 11

Candidate Starts for BigMau_64:

(Start: 10 @41804 has 17 MA's), (Start: 11 @41801 has 24 MA's), (12, 41789), (14, 41756), (18, 41738), (20, 41687), (21, 41672), (23, 41651), (24, 41621), (27, 41591), (34, 41516),

Gene: BluSpix_60 Start: 37016, Stop: 36717, Start Num: 10

Candidate Starts for BluSpix_60:

(Start: 10 @37016 has 17 MA's), (Start: 11 @37013 has 24 MA's), (12, 37001), (14, 36968), (18, 36950), (20, 36899), (21, 36884), (23, 36863), (24, 36833), (27, 36803), (34, 36728),

Gene: Bob3_63 Start: 41074, Stop: 40778, Start Num: 11

Candidate Starts for Bob3_63:

(Start: 10 @41077 has 17 MA's), (Start: 11 @41074 has 24 MA's), (12, 41062), (14, 41029), (18, 41011), (20, 40960), (21, 40945), (23, 40924), (24, 40894), (27, 40864), (34, 40789),

Gene: Bones_61 Start: 42258, Stop: 41962, Start Num: 11

Candidate Starts for Bones_61:

(Start: 10 @42261 has 17 MA's), (Start: 11 @42258 has 24 MA's), (12, 42246), (14, 42213), (18, 42195), (20, 42144), (21, 42129), (23, 42108), (24, 42078), (27, 42048), (34, 41973),

Gene: Briton15_66 Start: 42878, Stop: 42582, Start Num: 11

Candidate Starts for Briton15_66:

(Start: 10 @42881 has 17 MA's), (Start: 11 @42878 has 24 MA's), (12, 42866), (14, 42833), (18, 42815), (20, 42764), (21, 42749), (23, 42728), (24, 42698), (27, 42668),

Gene: Bruns_63 Start: 40455, Stop: 40159, Start Num: 11

Candidate Starts for Bruns_63:

(Start: 10 @40458 has 17 MA's), (Start: 11 @40455 has 24 MA's), (12, 40443), (14, 40410), (18, 40392), (20, 40341), (21, 40326), (23, 40305), (24, 40275), (27, 40245), (34, 40170),

Gene: Crispicous1_59 Start: 39995, Stop: 39699, Start Num: 11

Candidate Starts for Crispicous1_59:

(Start: 11 @39995 has 24 MA's), (12, 39983), (14, 39950), (18, 39932), (20, 39881), (21, 39866), (23, 39845), (24, 39815), (27, 39785),

Gene: Cueylyss_62 Start: 42458, Stop: 42162, Start Num: 11

Candidate Starts for Cueylyss_62:

(Start: 10 @42461 has 17 MA's), (Start: 11 @42458 has 24 MA's), (12, 42446), (14, 42413), (18, 42395), (20, 42344), (21, 42329), (23, 42308), (24, 42278), (27, 42248), (34, 42173),

Gene: DreamCatcher_65 Start: 41754, Stop: 41455, Start Num: 10

Candidate Starts for DreamCatcher_65:

(Start: 10 @41754 has 17 MA's), (Start: 11 @41751 has 24 MA's), (12, 41739), (14, 41706), (18, 41688), (20, 41637), (21, 41622), (23, 41601), (24, 41571), (27, 41541), (34, 41466),

Gene: Espresso_59 Start: 41111, Stop: 40833, Start Num: 10

Candidate Starts for Espresso_59:

(Start: 10 @41111 has 17 MA's), (Start: 11 @41108 has 24 MA's), (12, 41096), (18, 41066), (20, 41015), (21, 41000), (23, 40979), (24, 40949), (27, 40919),

Gene: Forsytheast_63 Start: 40623, Stop: 40327, Start Num: 11

Candidate Starts for Forsytheast_63:

(Start: 10 @40626 has 17 MA's), (Start: 11 @40623 has 24 MA's), (12, 40611), (14, 40578), (18, 40560), (20, 40509), (21, 40494), (23, 40473), (24, 40443), (27, 40413), (34, 40338),

Gene: HanShotFirst_63 Start: 42830, Stop: 42531, Start Num: 10

Candidate Starts for HanShotFirst_63:

(Start: 10 @42830 has 17 MA's), (Start: 11 @42827 has 24 MA's), (12, 42815), (14, 42782), (18, 42764), (20, 42713), (21, 42698), (23, 42677), (24, 42647), (27, 42617),

Gene: HarryOW_60 Start: 40966, Stop: 40688, Start Num: 10

Candidate Starts for HarryOW_60:

(Start: 10 @40966 has 17 MA's), (Start: 11 @40963 has 24 MA's), (12, 40951), (18, 40921), (20, 40870), (21, 40855), (23, 40834), (24, 40804), (27, 40774),

Gene: HermioneGrange_64 Start: 42295, Stop: 41999, Start Num: 11

Candidate Starts for HermioneGrange_64:

(Start: 10 @42298 has 17 MA's), (Start: 11 @42295 has 24 MA's), (12, 42283), (14, 42250), (18, 42232), (20, 42181), (21, 42166), (23, 42145), (24, 42115), (27, 42085), (34, 42010),

Gene: IgnatiusPatJac_62 Start: 40958, Stop: 40662, Start Num: 11

Candidate Starts for IgnatiusPatJac_62:

(Start: 10 @40961 has 17 MA's), (Start: 11 @40958 has 24 MA's), (12, 40946), (14, 40913), (18, 40895), (20, 40844), (21, 40829), (23, 40808), (24, 40778), (27, 40748), (34, 40673),

Gene: JF1_70 Start: 43533, Stop: 43847, Start Num: 13

Candidate Starts for JF1_70:

(Start: 13 @43533 has 6 MA's), (16, 43548), (19, 43578), (22, 43635),

Gene: Keshu_70 Start: 44135, Stop: 44440, Start Num: 8

Candidate Starts for Keshu_70:

(Start: 7 @44129 has 2 MA's), (Start: 8 @44135 has 1 MA's), (Start: 11 @44156 has 24 MA's), (15, 44198), (19, 44231), (22, 44288), (26, 44348), (28, 44360),

Gene: Killigrew_61 Start: 41393, Stop: 41097, Start Num: 11

Candidate Starts for Killigrew_61:

(Start: 10 @41396 has 17 MA's), (Start: 11 @41393 has 24 MA's), (12, 41381), (14, 41348), (18, 41330), (20, 41279), (21, 41264), (23, 41243), (24, 41213), (27, 41183),

Gene: Krueger_71 Start: 43668, Stop: 43991, Start Num: 7

Candidate Starts for Krueger_71:

(Start: 7 @43668 has 2 MA's), (17, 43752), (18, 43761), (22, 43842), (25, 43896), (28, 43911),

Gene: Kykar_63 Start: 41758, Stop: 41462, Start Num: 11

Candidate Starts for Kykar_63:

(Start: 10 @41761 has 17 MA's), (Start: 11 @41758 has 24 MA's), (12, 41746), (14, 41713), (18, 41695), (20, 41644), (21, 41629), (23, 41608), (24, 41578), (27, 41548), (34, 41473),

Gene: MPlant7149_62 Start: 40186, Stop: 39887, Start Num: 10

Candidate Starts for MPlant7149_62:

(Start: 10 @40186 has 17 MA's), (Start: 11 @40183 has 24 MA's), (12, 40171), (14, 40138), (18, 40120), (20, 40069), (21, 40054), (23, 40033), (24, 40003), (27, 39973), (34, 39898),

Gene: McGuire_63 Start: 40458, Stop: 40162, Start Num: 11

Candidate Starts for McGuire_63:

(Start: 10 @40461 has 17 MA's), (Start: 11 @40458 has 24 MA's), (12, 40446), (14, 40413), (18, 40395), (20, 40344), (21, 40329), (23, 40308), (24, 40278), (27, 40248),

Gene: Molly_63 Start: 41563, Stop: 41267, Start Num: 11

Candidate Starts for Molly_63:

(Start: 10 @41566 has 17 MA's), (Start: 11 @41563 has 24 MA's), (12, 41551), (14, 41518), (18, 41500), (20, 41449), (21, 41434), (23, 41413), (24, 41383), (27, 41353),

Gene: Moose_63 Start: 40623, Stop: 40327, Start Num: 11

Candidate Starts for Moose_63:

(Start: 10 @40626 has 17 MA's), (Start: 11 @40623 has 24 MA's), (12, 40611), (14, 40578), (18, 40560), (20, 40509), (21, 40494), (23, 40473), (24, 40443), (27, 40413), (34, 40338),

Gene: Museum_64 Start: 42785, Stop: 42486, Start Num: 10

Candidate Starts for Museum_64:

(Start: 10 @42785 has 17 MA's), (Start: 11 @42782 has 24 MA's), (12, 42770), (14, 42737), (18, 42719), (20, 42668), (21, 42653), (23, 42632), (24, 42602), (27, 42572), (34, 42497),

Gene: Nhonho_60 Start: 41685, Stop: 41386, Start Num: 10

Candidate Starts for Nhonho_60:

(3, 41763), (Start: 10 @41685 has 17 MA's), (Start: 11 @41682 has 24 MA's), (12, 41670), (14, 41637), (18, 41619), (20, 41568), (21, 41553), (23, 41532), (24, 41502), (27, 41472),

Gene: OmniCritical_69 Start: 43407, Stop: 43721, Start Num: 13

Candidate Starts for OmniCritical_69:

(Start: 13 @43407 has 6 MA's), (16, 43422), (19, 43452), (22, 43509),

Gene: PacerPaul_61 Start: 41105, Stop: 40827, Start Num: 10

Candidate Starts for PacerPaul_61:

(Start: 10 @41105 has 17 MA's), (Start: 11 @41102 has 24 MA's), (12, 41090), (18, 41060), (20, 41009), (21, 40994), (23, 40973), (24, 40943), (27, 40913),

Gene: Paphu_62 Start: 41937, Stop: 41638, Start Num: 10

Candidate Starts for Paphu_62:

(Start: 10 @41937 has 17 MA's), (Start: 11 @41934 has 24 MA's), (12, 41922), (14, 41889), (18, 41871), (20, 41820), (21, 41805), (23, 41784), (24, 41754), (27, 41724), (34, 41649),

Gene: Parliament_64 Start: 43726, Stop: 43430, Start Num: 11

Candidate Starts for Parliament_64:

(Start: 10 @43729 has 17 MA's), (Start: 11 @43726 has 24 MA's), (12, 43714), (14, 43681), (18, 43663), (20, 43612), (21, 43597), (23, 43576), (24, 43546), (27, 43516), (34, 43441),

Gene: Petp2012_65 Start: 43269, Stop: 42970, Start Num: 10

Candidate Starts for Petp2012_65:

(Start: 10 @43269 has 17 MA's), (Start: 11 @43266 has 24 MA's), (12, 43254), (14, 43221), (18, 43203), (20, 43152), (21, 43137), (23, 43116), (24, 43086), (27, 43056), (34, 42981),

Gene: ProMouse_61 Start: 41373, Stop: 41077, Start Num: 11

Candidate Starts for ProMouse_61:

(5, 41430), (Start: 11 @41373 has 24 MA's), (12, 41361), (14, 41328), (18, 41310), (21, 41244), (23, 41223), (24, 41193), (27, 41163), (34, 41088),

Gene: Rohr_64 Start: 42615, Stop: 42316, Start Num: 10

Candidate Starts for Rohr_64:

(Start: 10 @42615 has 17 MA's), (Start: 11 @42612 has 24 MA's), (12, 42600), (14, 42567), (18, 42549), (20, 42498), (21, 42483), (23, 42462), (24, 42432), (27, 42402), (34, 42327),

Gene: Ruthiejr_71 Start: 43418, Stop: 43732, Start Num: 13

Candidate Starts for Ruthiejr_71:

(Start: 13 @43418 has 6 MA's), (16, 43433), (19, 43463), (22, 43520),

Gene: Seabiscuit_65 Start: 40723, Stop: 40424, Start Num: 10

Candidate Starts for Seabiscuit_65:

(Start: 10 @40723 has 17 MA's), (Start: 11 @40720 has 24 MA's), (12, 40708), (14, 40675), (18, 40657), (20, 40606), (21, 40591), (23, 40570), (24, 40540), (27, 40510),

Gene: Seanderson_64 Start: 43120, Stop: 42836, Start Num: 9

Candidate Starts for Seanderson_64:

(Start: 9 @43120 has 1 MA's), (Start: 11 @43102 has 24 MA's), (12, 43090), (17, 43075), (18, 43069), (20, 43018), (21, 43003), (23, 42982), (24, 42952), (27, 42922), (32, 42877), (34, 42847),

Gene: Sibs6_64 Start: 39832, Stop: 39533, Start Num: 10

Candidate Starts for Sibs6_64:

(Start: 10 @39832 has 17 MA's), (Start: 11 @39829 has 24 MA's), (12, 39817), (14, 39784), (18, 39766), (20, 39715), (21, 39700), (23, 39679), (24, 39649), (27, 39619),

Gene: SkiPole_70 Start: 42720, Stop: 42421, Start Num: 10

Candidate Starts for SkiPole_70:

(Start: 10 @42720 has 17 MA's), (Start: 11 @42717 has 24 MA's), (12, 42705), (14, 42672), (18, 42654), (21, 42588), (24, 42537), (27, 42507), (34, 42432),

Gene: SwissCheese_65 Start: 41123, Stop: 40827, Start Num: 11

Candidate Starts for SwissCheese_65:

(Start: 10 @41126 has 17 MA's), (Start: 11 @41123 has 24 MA's), (12, 41111), (14, 41078), (18, 41060), (20, 41009), (21, 40994), (23, 40973), (24, 40943), (27, 40913), (34, 40838),

Gene: Switzer_63 Start: 42783, Stop: 42412, Start Num: 1

Candidate Starts for Switzer_63:

(Start: 1 @42783 has 1 MA's), (2, 42780), (4, 42735), (6, 42717), (Start: 10 @42681 has 17 MA's), (Start: 11 @42678 has 24 MA's), (12, 42666), (18, 42645), (20, 42594), (21, 42579), (23, 42558), (24, 42528), (27, 42498), (34, 42423),

Gene: Tasp14_66 Start: 43218, Stop: 42919, Start Num: 10

Candidate Starts for Tasp14_66:

(Start: 10 @43218 has 17 MA's), (Start: 11 @43215 has 24 MA's), (12, 43203), (14, 43170), (18, 43152), (20, 43101), (21, 43086), (23, 43065), (24, 43035), (27, 43005), (34, 42930),

Gene: Topgun_60 Start: 40325, Stop: 40029, Start Num: 11

Candidate Starts for Topgun_60:

(Start: 10 @40328 has 17 MA's), (Start: 11 @40325 has 24 MA's), (12, 40313), (14, 40280), (18, 40262), (21, 40196), (23, 40175), (24, 40145), (27, 40115),

Gene: U2_60 Start: 41888, Stop: 41592, Start Num: 11

Candidate Starts for U2_60:

(Start: 10 @41891 has 17 MA's), (Start: 11 @41888 has 24 MA's), (12, 41876), (14, 41843), (18, 41825), (20, 41774), (21, 41759), (23, 41738), (24, 41708), (27, 41678), (34, 41603),

Gene: Watermelon_62 Start: 40661, Stop: 40362, Start Num: 10

Candidate Starts for Watermelon_62:

(Start: 10 @40661 has 17 MA's), (Start: 11 @40658 has 24 MA's), (12, 40646), (14, 40613), (18, 40595), (20, 40544), (21, 40529), (23, 40508), (24, 40478), (27, 40448),

Gene: Wilkins_61 Start: 40255, Stop: 39959, Start Num: 11

Candidate Starts for Wilkins_61:

(Start: 10 @40258 has 17 MA's), (Start: 11 @40255 has 24 MA's), (12, 40243), (14, 40210), (18, 40192), (21, 40126), (23, 40105), (24, 40075), (27, 40045),

Gene: Y10_67 Start: 43533, Stop: 43847, Start Num: 13

Candidate Starts for Y10_67:

(Start: 13 @43533 has 6 MA's), (16, 43548), (19, 43578), (22, 43635),

Gene: Y2_67 Start: 43533, Stop: 43847, Start Num: 13

Candidate Starts for Y2_67:

(Start: 13 @43533 has 6 MA's), (16, 43548), (19, 43578), (22, 43635),

Gene: Zeeculate_59 Start: 41408, Stop: 41112, Start Num: 11

Candidate Starts for Zeeculate_59:

(5, 41465), (Start: 11 @41408 has 24 MA's), (12, 41396), (14, 41363), (18, 41345), (20, 41294), (21, 41279), (23, 41258), (24, 41228), (27, 41198),

Gene: Zephyr_63 Start: 40825, Stop: 40529, Start Num: 11

Candidate Starts for Zephyr_63:

(Start: 10 @40828 has 17 MA's), (Start: 11 @40825 has 24 MA's), (12, 40813), (14, 40780), (18, 40762), (20, 40711), (21, 40696), (23, 40675), (24, 40645), (27, 40615),