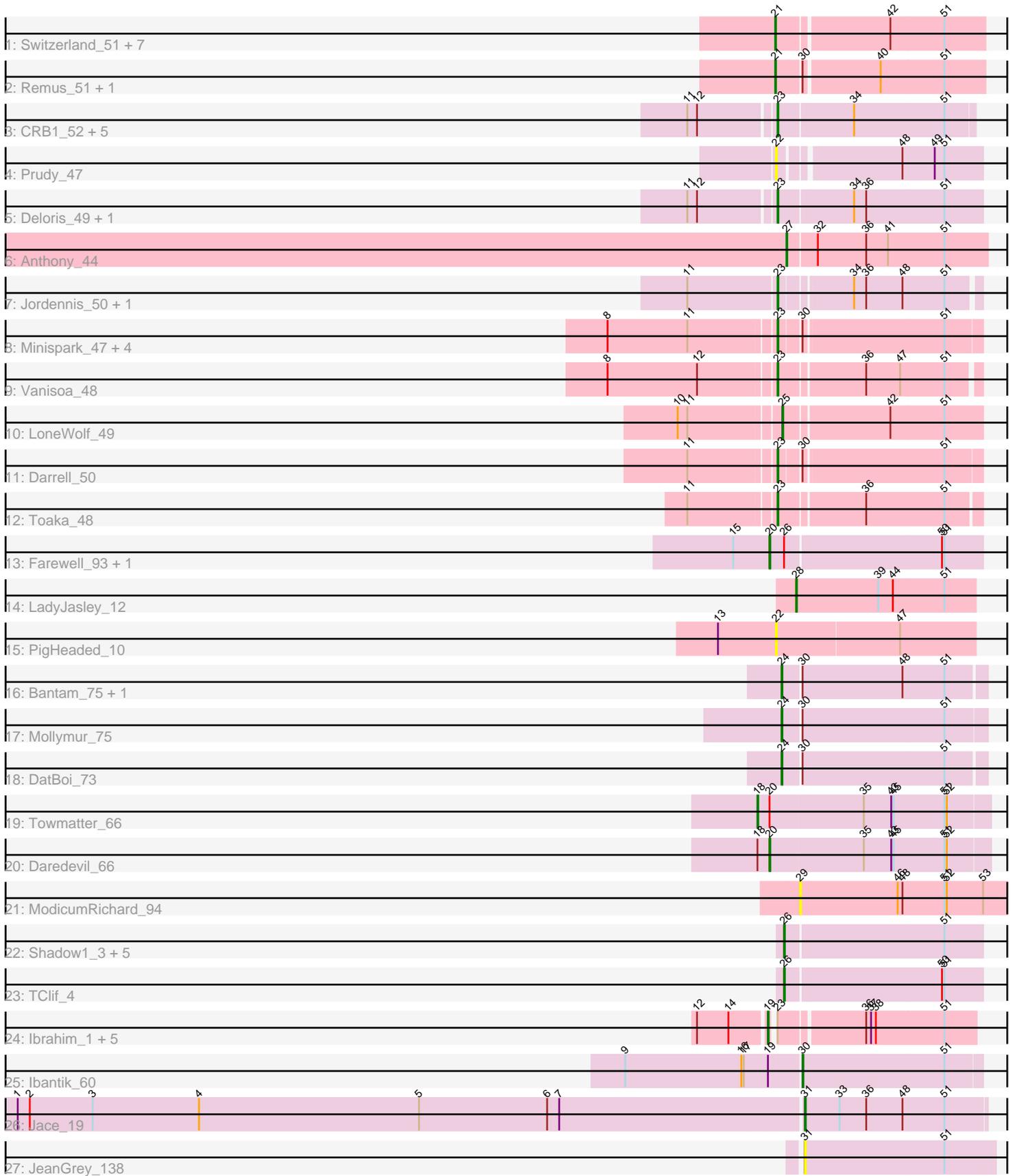


Pham 283844



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 283844 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283844 has 58 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Switzerland_51, Anon_46, Waits_51, MinecraftSteve_52, Battleship_52, Warrior24_52, Rosalind_50, JSwag_50
- Track 2 : Remus_51, Strosahl_51
- Track 3 : CRB1_52, LadyBird_53, AN3_51, VA6_49, 20ES_51, First_0050
- Track 4 : Prudy_47
- Track 5 : Deloris_49, BengiVuitton_50
- Track 6 : Anthony_44
- Track 7 : Jordennis_50, Polyphemus_52
- Track 8 : Minispark_47, Bellris_47, CogOmlette_47, WorldCup_47, Rahalelujah_48
- Track 9 : Vanisoa_48
- Track 10 : LoneWolf_49
- Track 11 : Darrell_50
- Track 12 : Toaka_48
- Track 13 : Farewell_93, Sparky_92
- Track 14 : LadyJasley_12
- Track 15 : PigHeaded_10
- Track 16 : Bantam_75, SpeedDemon_770
- Track 17 : Mollymur_75
- Track 18 : DatBoi_73
- Track 19 : Towmatter_66
- Track 20 : Daredevil_66
- Track 21 : ModicumRichard_94
- Track 22 : Shadow1_3, Krueger_4, Syra333_4, Sunflower1121_3, Tigress9_4, Ximenita_5
- Track 23 : TClif_4
- Track 24 : Ibrahim_1, RonRayGun_1, Bernal13_1, Whitty_1, ZenTime222_1, Nairb_1
- Track 25 : Ibantik_60
- Track 26 : Jace_19
- Track 27 : JeanGrey_138

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

The start number called the most often in the published annotations is 23, it was called in 11 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_51, AN3_51, Bellris_47, BengiVuitton_50, CRB1_52, CogOmlette_47, Darrell_50, Deloris_49, First_0050, Jordennis_50, LadyBird_53, Minispark_47, Polyphemos_52, Rahalelujah_48, Toaka_48, VA6_49, Vanisoa_48, WorldCup_47,

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

- Bernal13_1, Ibrahim_1, Nairb_1, RonRayGun_1, Whitty_1, ZenTime222_1,

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

- Anon_46, Anthony_44, Bantam_75, Battleship_52, Daredevil_66, DatBoi_73, Farewell_93, Ibantik_60, JSwag_50, Jace_19, JeanGrey_138, Krueger_4, LadyJasley_12, LoneWolf_49, MinecraftSteve_52, ModicumRichard_94, Mollymur_75, PigHeaded_10, Prudy_47, Remus_51, Rosalind_50, Shadow1_3, Sparky_92, SpeedDemon_770, Strosahl_51, Sunflower1121_3, Switzerland_51, Syra333_4, TClif_4, Tigress9_4, Towmatter_66, Waits_51, Warrior24_52, Ximenita_5,

Summary by start number:

Start 18:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Towmatter_66 (DL),

Start 19:

- Found in 7 of 58 (12.1%) of genes in pham
- Manual Annotations of this start: 6 of 46
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bernal13_1 (T), Ibrahim_1 (T), Nairb_1 (T), RonRayGun_1 (T), Whitty_1 (T), ZenTime222_1 (T),

Start 20:

- Found in 4 of 58 (6.9%) of genes in pham
- Manual Annotations of this start: 3 of 46
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Daredevil_66 (DL), Farewell_93 (AF), Sparky_92 (AF),

Start 21:

- Found in 10 of 58 (17.2%) of genes in pham
- Manual Annotations of this start: 10 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_46 (A15), Battleship_52 (A15), JSwag_50 (A15), MinecraftSteve_52 (A15), Remus_51 (A15), Rosalind_50 (A15), Strosahl_51 (A15), Switzerland_51 (A15), Waits_51 (A15), Warrior24_52 (A15),

Start 22:

- Found in 2 of 58 (3.4%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: PigHeaded_10 (AV), Prudy_47 (A2),

Start 23:

- Found in 24 of 58 (41.4%) of genes in pham
- Manual Annotations of this start: 11 of 46
- Called 75.0% of time when present
- Phage (with cluster) where this start called: 20ES_51 (A2), AN3_51 (A2), Bellris_47 (A9), BengiVuitton_50 (A2), CRB1_52 (A2), CogOmlette_47 (A9), Darrell_50 (A9), Deloris_49 (A2), First_0050 (A2), Jordennis_50 (A6), LadyBird_53 (A2), Minispark_47 (A9), Polyphemus_52 (A6), Rahalelujah_48 (A9), Toaka_48 (A9), VA6_49 (A2), Vanisoa_48 (A9), WorldCup_47 (A9),

Start 24:

- Found in 4 of 58 (6.9%) of genes in pham
- Manual Annotations of this start: 4 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_75 (DL), DatBoi_73 (DL), Mollymur_75 (DL), SpeedDemon_770 (DL),

Start 25:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LoneWolf_49 (A9),

Start 26:

- Found in 9 of 58 (15.5%) of genes in pham
- Manual Annotations of this start: 6 of 46
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Krueger_4 (K6), Shadow1_3 (K6), Sunflower1121_3 (K6), Syra333_4 (K6), TClif_4 (K6), Tigress9_4 (K6), Ximenita_5 (K6),

Start 27:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_44 (A20),

Start 28:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LadyJasley_12 (AV),

Start 29:

- Found in 1 of 58 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ModicumRichard_94 (DZ),

Start 30:

- Found in 13 of 58 (22.4%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Ibantik_60 (singleton),

Start 31:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_19 (singleton), JeanGrey_138 (singleton),

Summary by clusters:

There are 12 clusters represented in this pham: A15, A20, DL, AF, A6, singleton, A2, DZ, K6, AV, A9, T,

Info for manual annotations of cluster A15:

- Start number 21 was manually annotated 10 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 23 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 27 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A6:

- Start number 23 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 23 was manually annotated 4 times for cluster A9.
- Start number 25 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AF:

- Start number 20 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AV:

- Start number 28 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster DL:

- Start number 18 was manually annotated 1 time for cluster DL.
- Start number 20 was manually annotated 1 time for cluster DL.
- Start number 24 was manually annotated 4 times for cluster DL.

Info for manual annotations of cluster K6:

- Start number 26 was manually annotated 6 times for cluster K6.

Info for manual annotations of cluster T:

- Start number 19 was manually annotated 6 times for cluster T.

Gene Information:

Gene: 20ES_51 Start: 32882, Stop: 32634, Start Num: 23

Candidate Starts for 20ES_51:

(11, 32984), (12, 32972), (Start: 23 @32882 has 11 MA's), (34, 32792), (51, 32681),

Gene: AN3_51 Start: 33253, Stop: 33005, Start Num: 23

Candidate Starts for AN3_51:

(11, 33355), (12, 33343), (Start: 23 @33253 has 11 MA's), (34, 33163), (51, 33052),

Gene: Anon_46 Start: 30067, Stop: 29819, Start Num: 21

Candidate Starts for Anon_46:

(Start: 21 @30067 has 10 MA's), (42, 29935), (51, 29869),

Gene: Anthony_44 Start: 30206, Stop: 29964, Start Num: 27

Candidate Starts for Anthony_44:

(Start: 27 @30206 has 1 MA's), (32, 30173), (36, 30113), (41, 30086), (51, 30017),

Gene: Bantam_75 Start: 53471, Stop: 53229, Start Num: 24

Candidate Starts for Bantam_75:

(Start: 24 @53471 has 4 MA's), (Start: 30 @53450 has 1 MA's), (48, 53327), (51, 53276),

Gene: Battleship_52 Start: 31061, Stop: 30813, Start Num: 21

Candidate Starts for Battleship_52:

(Start: 21 @31061 has 10 MA's), (42, 30929), (51, 30863),

Gene: Bellris_47 Start: 31845, Stop: 31609, Start Num: 23

Candidate Starts for Bellris_47:

(8, 32046), (11, 31947), (Start: 23 @31845 has 11 MA's), (Start: 30 @31821 has 1 MA's), (51, 31653),

Gene: BengiVuitton_50 Start: 32835, Stop: 32587, Start Num: 23

Candidate Starts for BengiVuitton_50:

(11, 32937), (12, 32925), (Start: 23 @32835 has 11 MA's), (34, 32745), (36, 32730), (51, 32634),

Gene: Bernal13_1 Start: 89, Stop: 325, Start Num: 19

Candidate Starts for Bernal13_1:

(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),

Gene: CRB1_52 Start: 33225, Stop: 32989, Start Num: 23

Candidate Starts for CRB1_52:

(11, 33327), (12, 33315), (Start: 23 @33225 has 11 MA's), (34, 33135), (51, 33024),

Gene: CogOmlette_47 Start: 31842, Stop: 31606, Start Num: 23

Candidate Starts for CogOmlette_47:

(8, 32043), (11, 31944), (Start: 23 @31842 has 11 MA's), (Start: 30 @31818 has 1 MA's), (51, 31650),

Gene: Daredevil_66 Start: 49516, Stop: 49250, Start Num: 20

Candidate Starts for Daredevil_66:

(Start: 18 @49531 has 1 MA's), (Start: 20 @49516 has 3 MA's), (35, 49402), (43, 49369), (45, 49366), (51, 49303), (52, 49300),

Gene: Darrell_50 Start: 32937, Stop: 32701, Start Num: 23

Candidate Starts for Darrell_50:

(11, 33039), (Start: 23 @32937 has 11 MA's), (Start: 30 @32913 has 1 MA's), (51, 32745),

Gene: DatBoi_73 Start: 53464, Stop: 53222, Start Num: 24

Candidate Starts for DatBoi_73:

(Start: 24 @53464 has 4 MA's), (Start: 30 @53443 has 1 MA's), (51, 53269),

Gene: Deloris_49 Start: 32504, Stop: 32256, Start Num: 23

Candidate Starts for Deloris_49:

(11, 32606), (12, 32594), (Start: 23 @32504 has 11 MA's), (34, 32414), (36, 32399), (51, 32303),

Gene: Farewell_93 Start: 60714, Stop: 60971, Start Num: 20

Candidate Starts for Farewell_93:

(15, 60669), (Start: 20 @60714 has 3 MA's), (Start: 26 @60732 has 6 MA's), (50, 60921), (51, 60924),

Gene: First_0050 Start: 32758, Stop: 32510, Start Num: 23

Candidate Starts for First_0050:

(11, 32860), (12, 32848), (Start: 23 @32758 has 11 MA's), (34, 32668), (51, 32557),

Gene: Ibantik_60 Start: 25970, Stop: 26188, Start Num: 30

Candidate Starts for Ibantik_60:

(9, 25754), (16, 25898), (17, 25901), (Start: 19 @25931 has 6 MA's), (Start: 30 @25970 has 1 MA's), (51, 26144),

Gene: Ibrahim_1 Start: 89, Stop: 325, Start Num: 19

Candidate Starts for Ibrahim_1:

(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),

Gene: JSwag_50 Start: 30801, Stop: 30553, Start Num: 21

Candidate Starts for JSwag_50:

(Start: 21 @30801 has 10 MA's), (42, 30669), (51, 30603),

Gene: Jace_19 Start: 17315, Stop: 17536, Start Num: 31

Candidate Starts for Jace_19:

(1, 16346), (2, 16361), (3, 16439), (4, 16571), (5, 16844), (6, 17003), (7, 17018), (Start: 31 @17315 has 1 MA's), (33, 17357), (36, 17390), (48, 17435), (51, 17486),

Gene: JeanGrey_138 Start: 105656, Stop: 105889, Start Num: 31

Candidate Starts for JeanGrey_138:

(Start: 31 @105656 has 1 MA's), (51, 105827),

Gene: Jordennis_50 Start: 31033, Stop: 30803, Start Num: 23

Candidate Starts for Jordennis_50:

(11, 31141), (Start: 23 @31033 has 11 MA's), (34, 30952), (36, 30937), (48, 30892), (51, 30841),

Gene: Krueger_4 Start: 823, Stop: 1062, Start Num: 26

Candidate Starts for Krueger_4:

(Start: 26 @823 has 6 MA's), (51, 1015),

Gene: LadyBird_53 Start: 33193, Stop: 32945, Start Num: 23

Candidate Starts for LadyBird_53:

(11, 33295), (12, 33283), (Start: 23 @33193 has 11 MA's), (34, 33103), (51, 32992),

Gene: LadyJasley_12 Start: 5128, Stop: 5349, Start Num: 28
Candidate Starts for LadyJasley_12:
(Start: 28 @5128 has 1 MA's), (39, 5230), (44, 5248), (51, 5311),

Gene: LoneWolf_49 Start: 32307, Stop: 32071, Start Num: 25
Candidate Starts for LoneWolf_49:
(10, 32427), (11, 32415), (Start: 25 @32307 has 1 MA's), (42, 32184), (51, 32118),

Gene: MinecraftSteve_52 Start: 31065, Stop: 30817, Start Num: 21
Candidate Starts for MinecraftSteve_52:
(Start: 21 @31065 has 10 MA's), (42, 30933), (51, 30867),

Gene: Minispark_47 Start: 31839, Stop: 31603, Start Num: 23
Candidate Starts for Minispark_47:
(8, 32040), (11, 31941), (Start: 23 @31839 has 11 MA's), (Start: 30 @31815 has 1 MA's), (51, 31647),

Gene: ModicumRichard_94 Start: 55434, Stop: 55703, Start Num: 29
Candidate Starts for ModicumRichard_94:
(29, 55434), (46, 55554), (48, 55560), (51, 55611), (52, 55614), (53, 55659),

Gene: Mollymur_75 Start: 54003, Stop: 53758, Start Num: 24
Candidate Starts for Mollymur_75:
(Start: 24 @54003 has 4 MA's), (Start: 30 @53982 has 1 MA's), (51, 53808),

Gene: Nairb_1 Start: 89, Stop: 325, Start Num: 19
Candidate Starts for Nairb_1:
(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),

Gene: PigHeaded_10 Start: 4950, Stop: 5192, Start Num: 22
Candidate Starts for PigHeaded_10:
(13, 4878), (22, 4950), (47, 5100),

Gene: Polyphemus_52 Start: 31731, Stop: 31501, Start Num: 23
Candidate Starts for Polyphemus_52:
(11, 31839), (Start: 23 @31731 has 11 MA's), (34, 31650), (36, 31635), (48, 31590), (51, 31539),

Gene: Prudy_47 Start: 33069, Stop: 32833, Start Num: 22
Candidate Starts for Prudy_47:
(22, 33069), (48, 32931), (49, 32892), (51, 32880),

Gene: Rahalelujah_48 Start: 31854, Stop: 31618, Start Num: 23
Candidate Starts for Rahalelujah_48:
(8, 32055), (11, 31956), (Start: 23 @31854 has 11 MA's), (Start: 30 @31830 has 1 MA's), (51, 31662),

Gene: Remus_51 Start: 30778, Stop: 30533, Start Num: 21
Candidate Starts for Remus_51:
(Start: 21 @30778 has 10 MA's), (Start: 30 @30751 has 1 MA's), (40, 30661), (51, 30583),

Gene: RonRayGun_1 Start: 89, Stop: 325, Start Num: 19
Candidate Starts for RonRayGun_1:

(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),

Gene: Rosalind_50 Start: 30984, Stop: 30736, Start Num: 21
Candidate Starts for Rosalind_50:
(Start: 21 @30984 has 10 MA's), (42, 30852), (51, 30786),

Gene: Shadow1_3 Start: 728, Stop: 967, Start Num: 26
Candidate Starts for Shadow1_3:
(Start: 26 @728 has 6 MA's), (51, 920),

Gene: Sparky_92 Start: 62308, Stop: 62565, Start Num: 20
Candidate Starts for Sparky_92:
(15, 62263), (Start: 20 @62308 has 3 MA's), (Start: 26 @62326 has 6 MA's), (50, 62515), (51, 62518),

Gene: SpeedDemon_770 Start: 55702, Stop: 55460, Start Num: 24
Candidate Starts for SpeedDemon_770:
(Start: 24 @55702 has 4 MA's), (Start: 30 @55681 has 1 MA's), (48, 55558), (51, 55507),

Gene: Strosahl_51 Start: 30778, Stop: 30533, Start Num: 21
Candidate Starts for Strosahl_51:
(Start: 21 @30778 has 10 MA's), (Start: 30 @30751 has 1 MA's), (40, 30661), (51, 30583),

Gene: Sunflower1121_3 Start: 727, Stop: 966, Start Num: 26
Candidate Starts for Sunflower1121_3:
(Start: 26 @727 has 6 MA's), (51, 919),

Gene: Switzerland_51 Start: 31164, Stop: 30916, Start Num: 21
Candidate Starts for Switzerland_51:
(Start: 21 @31164 has 10 MA's), (42, 31032), (51, 30966),

Gene: Syra333_4 Start: 832, Stop: 1071, Start Num: 26
Candidate Starts for Syra333_4:
(Start: 26 @832 has 6 MA's), (51, 1024),

Gene: TClif_4 Start: 786, Stop: 1025, Start Num: 26
Candidate Starts for TClif_4:
(Start: 26 @786 has 6 MA's), (50, 975), (51, 978),

Gene: Tigress9_4 Start: 823, Stop: 1062, Start Num: 26
Candidate Starts for Tigress9_4:
(Start: 26 @823 has 6 MA's), (51, 1015),

Gene: Toaka_48 Start: 32116, Stop: 31880, Start Num: 23
Candidate Starts for Toaka_48:
(11, 32218), (Start: 23 @32116 has 11 MA's), (36, 32017), (51, 31921),

Gene: Towmatter_66 Start: 49610, Stop: 49329, Start Num: 18
Candidate Starts for Towmatter_66:
(Start: 18 @49610 has 1 MA's), (Start: 20 @49595 has 3 MA's), (35, 49481), (43, 49448), (45, 49445), (51, 49382), (52, 49379),

Gene: VA6_49 Start: 32727, Stop: 32479, Start Num: 23

Candidate Starts for VA6_49:

(11, 32829), (12, 32817), (Start: 23 @32727 has 11 MA's), (34, 32637), (51, 32526),

Gene: Vanisoa_48 Start: 33142, Stop: 32909, Start Num: 23

Candidate Starts for Vanisoa_48:

(8, 33343), (12, 33232), (Start: 23 @33142 has 11 MA's), (36, 33043), (47, 33001), (51, 32947),

Gene: Waits_51 Start: 30953, Stop: 30705, Start Num: 21

Candidate Starts for Waits_51:

(Start: 21 @30953 has 10 MA's), (42, 30821), (51, 30755),

Gene: Warrior24_52 Start: 31163, Stop: 30915, Start Num: 21

Candidate Starts for Warrior24_52:

(Start: 21 @31163 has 10 MA's), (42, 31031), (51, 30965),

Gene: Whitty_1 Start: 89, Stop: 325, Start Num: 19

Candidate Starts for Whitty_1:

(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),

Gene: WorldCup_47 Start: 31848, Stop: 31612, Start Num: 23

Candidate Starts for WorldCup_47:

(8, 32049), (11, 31950), (Start: 23 @31848 has 11 MA's), (Start: 30 @31824 has 1 MA's), (51, 31656),

Gene: Ximenita_5 Start: 995, Stop: 1234, Start Num: 26

Candidate Starts for Ximenita_5:

(Start: 26 @995 has 6 MA's), (51, 1187),

Gene: ZenTime222_1 Start: 89, Stop: 325, Start Num: 19

Candidate Starts for ZenTime222_1:

(12, 8), (14, 47), (Start: 19 @89 has 6 MA's), (Start: 23 @92 has 11 MA's), (36, 191), (37, 197), (38, 203), (51, 287),