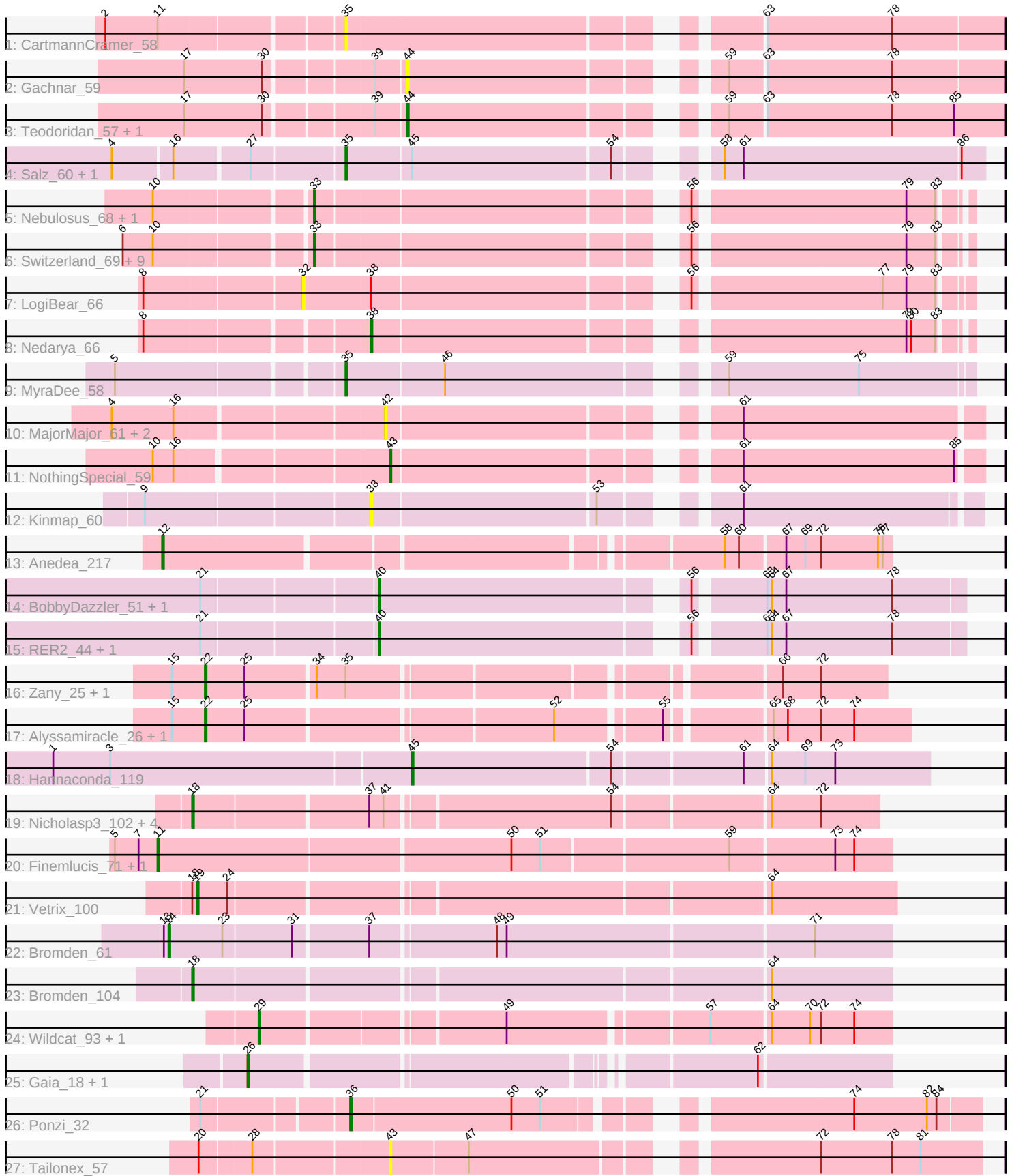


Pham 330935



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 330935 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330935 has 52 members, 10 are drafts.

Phages represented in each track:

- Track 1 : CartmannCramer_58
- Track 2 : Gachnar_59
- Track 3 : Teodoridan_57, IgnatiusPatJac_59
- Track 4 : Salz_60, Ebony_61
- Track 5 : Nebulosus_68, Epsocamisio_67
- Track 6 : Switzerland_69, MinecraftSteve_70, Anaysia_70, Remus_70, LastResort_68, JSwag_69, Strosahl_70, Battleship_72, ShayRa_70, ReMo_68
- Track 7 : LogiBear_66
- Track 8 : Nedarya_66
- Track 9 : MyraDee_58
- Track 10 : MajorMajor_61, Bradman_61, Quokka_60
- Track 11 : NothingSpecial_59
- Track 12 : Kinmap_60
- Track 13 : Anedea_217
- Track 14 : BobbyDazzler_51, Yoncess_50
- Track 15 : RER2_44, Krishelle_51
- Track 16 : Zany_25, RazorC_24
- Track 17 : Alyssamiracle_26, Genamy16_26
- Track 18 : Hannaconda_119
- Track 19 : Nicholasp3_102, Gardann_101, Rumpelstiltskin_98, Underpass_94, Kahlid_101
- Track 20 : Finemlucis_71, Gabriela_68
- Track 21 : Vetrix_100
- Track 22 : Bromden_61
- Track 23 : Bromden_104
- Track 24 : Wildcat_93, MaryV_93
- Track 25 : Gaia_18, Nebkiss_19
- Track 26 : Ponzi_32
- Track 27 : Tailonex_57

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

The start number called the most often in the published annotations is 33, it was called in 12 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia_70, Battleship_72, Epsocamisio_67, JSwag_69, LastResort_68, MinecraftSteve_70, Nebulosus_68, ReMo_68, Remus_70, ShayRa_70, Strosahl_70, Switzerland_69,

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

-

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

- Alyssmiracle_26, Anedea_217, BobbyDazzler_51, Bradman_61, Bromden_104, Bromden_61, CartmannCramer_58, Ebony_61, Finemlucis_71, Gabriela_68, Gachnar_59, Gaia_18, Gardann_101, Genamy16_26, Hannaconda_119, IgnatiusPatJac_59, Kahlid_101, Kinmap_60, Krishelle_51, LogiBear_66, MajorMajor_61, MaryV_93, MyraDee_58, Nebkiss_19, Nedarya_66, Nicholasp3_102, NothingSpecial_59, Ponzi_32, Quokka_60, RER2_44, RazorC_24, Rumpelstiltskin_98, Salz_60, Tailonex_57, Teodoridan_57, Underpass_94, Vetrix_100, Wildcat_93, Yoncess_50, Zany_25,

Summary by start number:

Start 11:

- Found in 3 of 52 (5.8%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Finemlucis_71 (L2), Gabriela_68 (L2),

Start 12:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_217 (BE1),

Start 14:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bromden_61 (L4),

Start 18:

- Found in 7 of 52 (13.5%) of genes in pham
- Manual Annotations of this start: 6 of 42
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bromden_104 (L4), Gardann_101 (L2), Kahlid_101 (L2), Nicholasp3_102 (L2), Rumpelstiltskin_98 (L2), Underpass_94 (L2),

Start 19:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vetrix_100 (L2),

Start 22:

- Found in 4 of 52 (7.7%) of genes in pham
- Manual Annotations of this start: 4 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_26 (DV), Genamy16_26 (DV), RazorC_24 (DV), Zany_25 (DV),

Start 26:

- Found in 2 of 52 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_18 (X), Nebkiss_19 (X),

Start 29:

- Found in 2 of 52 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MaryV_93 (V), Wildcat_93 (V),

Start 32:

- Found in 1 of 52 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LogiBear_66 (A15),

Start 33:

- Found in 12 of 52 (23.1%) of genes in pham
- Manual Annotations of this start: 12 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_70 (A15), Battleship_72 (A15), Epsocamisio_67 (A15), JSwag_69 (A15), LastResort_68 (A15), MinecraftSteve_70 (A15), Nebulosus_68 (A15), ReMo_68 (A15), Remus_70 (A15), ShayRa_70 (A15), Strosahl_70 (A15), Switzerland_69 (A15),

Start 35:

- Found in 6 of 52 (11.5%) of genes in pham
- Manual Annotations of this start: 3 of 42
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CartmannCramer_58 (A1), Ebony_61 (A11), MyraDee_58 (A18), Salz_60 (A11),

Start 36:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi_32 (singleton),

Start 38:

- Found in 3 of 52 (5.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Kinmap_60 (A21), Nedarya_66 (A15),

Start 40:

- Found in 4 of 52 (7.7%) of genes in pham
- Manual Annotations of this start: 3 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobbyDazzler_51 (CA), Krishelle_51 (CA), RER2_44 (CA), Yoncess_50 (CA),

Start 42:

- Found in 3 of 52 (5.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bradman_61 (A2), MajorMajor_61 (A2), Quokka_60 (A2),

Start 43:

- Found in 2 of 52 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NothingSpecial_59 (A2), Tailonex_57 (singleton),

Start 44:

- Found in 3 of 52 (5.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gachnar_59 (A1), IgnatiusPatJac_59 (A1), Teodoridan_57 (A1),

Start 45:

- Found in 3 of 52 (5.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hannaconda_119 (J),

Summary by clusters:

There are 15 clusters represented in this pham: A15, A21, singleton, A11, CA, J, A18, A1, L4, A2, L2, V, DV, X, BE1,

Info for manual annotations of cluster A1:

- Start number 44 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:

- Start number 35 was manually annotated 2 times for cluster A11.

Info for manual annotations of cluster A15:

- Start number 33 was manually annotated 12 times for cluster A15.
- Start number 38 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:

- Start number 35 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 43 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster BE1:

- Start number 12 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster CA:

- Start number 40 was manually annotated 3 times for cluster CA.

Info for manual annotations of cluster DV:

- Start number 22 was manually annotated 4 times for cluster DV.

Info for manual annotations of cluster J:

- Start number 45 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster L2:

- Start number 11 was manually annotated 2 times for cluster L2.
- Start number 18 was manually annotated 5 times for cluster L2.
- Start number 19 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:

- Start number 14 was manually annotated 1 time for cluster L4.
- Start number 18 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster V:

- Start number 29 was manually annotated 2 times for cluster V.

Info for manual annotations of cluster X:

- Start number 26 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Alyssamiracle_26 Start: 15136, Stop: 15546, Start Num: 22

Candidate Starts for Alyssamiracle_26:

(15, 15115), (Start: 22 @15136 has 4 MA's), (25, 15160), (52, 15343), (55, 15403), (65, 15460), (68, 15469), (72, 15490), (74, 15511),

Gene: Anaysia_70 Start: 39921, Stop: 39553, Start Num: 33

Candidate Starts for Anaysia_70:

(6, 40029), (10, 40011), (Start: 33 @39921 has 12 MA's), (56, 39711), (79, 39585), (83, 39567),

Gene: Anedea_217 Start: 106294, Stop: 106719, Start Num: 12

Candidate Starts for Anedea_217:

(Start: 12 @106294 has 1 MA's), (58, 106618), (60, 106627), (67, 106654), (69, 106666), (72, 106675), (76, 106711), (77, 106714),

Gene: Battleship_72 Start: 40127, Stop: 39759, Start Num: 33

Candidate Starts for Battleship_72:

(6, 40235), (10, 40217), (Start: 33 @40127 has 12 MA's), (56, 39917), (79, 39791), (83, 39773),

Gene: BobbyDazzler_51 Start: 36743, Stop: 36405, Start Num: 40

Candidate Starts for BobbyDazzler_51:

(21, 36845), (Start: 40 @36743 has 3 MA's), (56, 36566), (63, 36527), (64, 36524), (67, 36515), (78, 36449),

Gene: Bradman_61 Start: 38947, Stop: 38609, Start Num: 42

Candidate Starts for Bradman_61:

(4, 39106), (16, 39067), (42, 38947), (61, 38755),

Gene: Bromden_61 Start: 43963, Stop: 44400, Start Num: 14

Candidate Starts for Bromden_61:

(13, 43960), (Start: 14 @43963 has 1 MA's), (23, 43996), (31, 44038), (37, 44083), (48, 44158), (49, 44164), (71, 44353),

Gene: Bromden_104 Start: 63270, Stop: 63686, Start Num: 18

Candidate Starts for Bromden_104:

(Start: 18 @63270 has 6 MA's), (64, 63612),

Gene: CartmannCramer_58 Start: 42140, Stop: 41766, Start Num: 35

Candidate Starts for CartmannCramer_58:

(2, 42278), (Start: 11 @42245 has 2 MA's), (Start: 35 @42140 has 3 MA's), (63, 41912), (78, 41834),

Gene: Ebony_61 Start: 38810, Stop: 38445, Start Num: 35

Candidate Starts for Ebony_61:

(4, 38942), (16, 38906), (27, 38864), (Start: 35 @38810 has 3 MA's), (Start: 45 @38771 has 1 MA's), (54, 38648), (58, 38606), (61, 38594), (86, 38459),

Gene: Epsocamisio_67 Start: 39456, Stop: 39088, Start Num: 33

Candidate Starts for Epsocamisio_67:

(10, 39546), (Start: 33 @39456 has 12 MA's), (56, 39246), (79, 39120), (83, 39102),

Gene: Finemlucis_71 Start: 49120, Stop: 49566, Start Num: 11

Candidate Starts for Finemlucis_71:

(5, 49093), (7, 49108), (Start: 11 @49120 has 2 MA's), (50, 49336), (51, 49354), (59, 49468), (73, 49531), (74, 49543),

Gene: Gabriela_68 Start: 47246, Stop: 47692, Start Num: 11

Candidate Starts for Gabriela_68:

(5, 47219), (7, 47234), (Start: 11 @47246 has 2 MA's), (50, 47462), (51, 47480), (59, 47594), (73, 47657), (74, 47669),

Gene: Gachnar_59 Start: 40593, Stop: 40255, Start Num: 44

Candidate Starts for Gachnar_59:

(17, 40719), (30, 40671), (39, 40611), (Start: 44 @40593 has 1 MA's), (59, 40422), (63, 40401), (78, 40323),

Gene: Gaia_18 Start: 17322, Stop: 17690, Start Num: 26

Candidate Starts for Gaia_18:

(Start: 26 @17322 has 2 MA's), (62, 17610),

Gene: Gardann_101 Start: 61924, Stop: 62331, Start Num: 18

Candidate Starts for Gardann_101:

(Start: 18 @61924 has 6 MA's), (37, 62029), (41, 62038), (54, 62173), (64, 62266), (72, 62296),

Gene: Genamy16_26 Start: 15136, Stop: 15546, Start Num: 22

Candidate Starts for Genamy16_26:

(15, 15115), (Start: 22 @15136 has 4 MA's), (25, 15160), (52, 15343), (55, 15403), (65, 15460), (68, 15469), (72, 15490), (74, 15511),

Gene: Hannaconda_119 Start: 67166, Stop: 67480, Start Num: 45

Candidate Starts for Hannaconda_119:

(1, 66944), (3, 66980), (Start: 45 @67166 has 1 MA's), (54, 67289), (61, 67367), (64, 67382), (69, 67403), (73, 67421),

Gene: IgnatiusPatJac_59 Start: 40122, Stop: 39781, Start Num: 44

Candidate Starts for IgnatiusPatJac_59:

(17, 40248), (30, 40200), (39, 40140), (Start: 44 @40122 has 1 MA's), (59, 39951), (63, 39930), (78, 39852), (85, 39813),

Gene: JSwag_69 Start: 39645, Stop: 39277, Start Num: 33

Candidate Starts for JSwag_69:

(6, 39753), (10, 39735), (Start: 33 @39645 has 12 MA's), (56, 39435), (79, 39309), (83, 39291),

Gene: Kahlid_101 Start: 61842, Stop: 62249, Start Num: 18

Candidate Starts for Kahlid_101:

(Start: 18 @61842 has 6 MA's), (37, 61947), (41, 61956), (54, 62091), (64, 62184), (72, 62214),

Gene: Kinmap_60 Start: 38242, Stop: 37898, Start Num: 38

Candidate Starts for Kinmap_60:

(9, 38374), (Start: 38 @38242 has 1 MA's), (53, 38104), (61, 38041),

Gene: Krishelle_51 Start: 37066, Stop: 36728, Start Num: 40

Candidate Starts for Krishelle_51:

(21, 37168), (Start: 40 @37066 has 3 MA's), (56, 36889), (63, 36850), (64, 36847), (67, 36838), (78, 36772),

Gene: LastResort_68 Start: 39697, Stop: 39329, Start Num: 33

Candidate Starts for LastResort_68:

(6, 39805), (10, 39787), (Start: 33 @39697 has 12 MA's), (56, 39487), (79, 39361), (83, 39343),

Gene: LogiBear_66 Start: 39725, Stop: 39345, Start Num: 32

Candidate Starts for LogiBear_66:

(8, 39818), (32, 39725), (Start: 38 @39683 has 1 MA's), (56, 39506), (77, 39395), (79, 39380), (83, 39362),

Gene: MajorMajor_61 Start: 38947, Stop: 38609, Start Num: 42

Candidate Starts for MajorMajor_61:

(4, 39106), (16, 39067), (42, 38947), (61, 38755),

Gene: MaryV_93 Start: 56140, Stop: 56508, Start Num: 29

Candidate Starts for MaryV_93:

(Start: 29 @56140 has 2 MA's), (49, 56281), (57, 56398), (64, 56434), (70, 56458), (72, 56464), (74, 56485),

Gene: MinecraftSteve_70 Start: 39933, Stop: 39565, Start Num: 33

Candidate Starts for MinecraftSteve_70:

(6, 40041), (10, 40023), (Start: 33 @39933 has 12 MA's), (56, 39723), (79, 39597), (83, 39579),

Gene: MyraDee_58 Start: 36584, Stop: 36225, Start Num: 35

Candidate Starts for MyraDee_58:

(5, 36716), (Start: 35 @36584 has 3 MA's), (46, 36524), (59, 36374), (75, 36293),

Gene: Nebkiss_19 Start: 17323, Stop: 17691, Start Num: 26

Candidate Starts for Nebkiss_19:

(Start: 26 @17323 has 2 MA's), (62, 17611),

Gene: Nebulosus_68 Start: 39693, Stop: 39325, Start Num: 33

Candidate Starts for Nebulosus_68:

(10, 39783), (Start: 33 @39693 has 12 MA's), (56, 39483), (79, 39357), (83, 39339),

Gene: Nedarya_66 Start: 39619, Stop: 39284, Start Num: 38

Candidate Starts for Nedarya_66:

(8, 39748), (Start: 38 @39619 has 1 MA's), (79, 39316), (80, 39313), (83, 39298),

Gene: Nicholasp3_102 Start: 61924, Stop: 62331, Start Num: 18

Candidate Starts for Nicholasp3_102:

(Start: 18 @61924 has 6 MA's), (37, 62029), (41, 62038), (54, 62173), (64, 62266), (72, 62296),

Gene: NothingSpecial_59 Start: 39991, Stop: 39656, Start Num: 43

Candidate Starts for NothingSpecial_59:

(10, 40126), (16, 40114), (Start: 43 @39991 has 1 MA's), (61, 39802), (85, 39670),

Gene: Ponzi_32 Start: 17880, Stop: 17527, Start Num: 36

Candidate Starts for Ponzi_32:

(21, 17964), (Start: 36 @17880 has 1 MA's), (50, 17781), (51, 17763), (74, 17604), (82, 17559), (84, 17553),

Gene: Quokka_60 Start: 38947, Stop: 38609, Start Num: 42

Candidate Starts for Quokka_60:

(4, 39106), (16, 39067), (42, 38947), (61, 38755),

Gene: RER2_44 Start: 33569, Stop: 33231, Start Num: 40

Candidate Starts for RER2_44:

(21, 33671), (Start: 40 @33569 has 3 MA's), (56, 33392), (63, 33353), (64, 33350), (67, 33341), (78, 33275),

Gene: RazorC_24 Start: 15136, Stop: 15528, Start Num: 22

Candidate Starts for RazorC_24:

(15, 15115), (Start: 22 @15136 has 4 MA's), (25, 15160), (34, 15202), (Start: 35 @15220 has 3 MA's), (66, 15463), (72, 15487),

Gene: ReMo_68 Start: 39694, Stop: 39326, Start Num: 33

Candidate Starts for ReMo_68:

(6, 39802), (10, 39784), (Start: 33 @39694 has 12 MA's), (56, 39484), (79, 39358), (83, 39340),

Gene: Remus_70 Start: 39685, Stop: 39317, Start Num: 33

Candidate Starts for Remus_70:

(6, 39793), (10, 39775), (Start: 33 @39685 has 12 MA's), (56, 39475), (79, 39349), (83, 39331),

Gene: Rumpelstiltskin_98 Start: 61717, Stop: 62124, Start Num: 18

Candidate Starts for Rumpelstiltskin_98:

(Start: 18 @61717 has 6 MA's), (37, 61822), (41, 61831), (54, 61966), (64, 62059), (72, 62089),

Gene: Salz_60 Start: 38758, Stop: 38393, Start Num: 35

Candidate Starts for Salz_60:

(4, 38890), (16, 38854), (27, 38812), (Start: 35 @38758 has 3 MA's), (Start: 45 @38719 has 1 MA's), (54, 38596), (58, 38554), (61, 38542), (86, 38407),

Gene: ShayRa_70 Start: 39881, Stop: 39513, Start Num: 33

Candidate Starts for ShayRa_70:

(6, 39989), (10, 39971), (Start: 33 @39881 has 12 MA's), (56, 39671), (79, 39545), (83, 39527),

Gene: Strosahl_70 Start: 39685, Stop: 39317, Start Num: 33

Candidate Starts for Strosahl_70:

(6, 39793), (10, 39775), (Start: 33 @39685 has 12 MA's), (56, 39475), (79, 39349), (83, 39331),

Gene: Switzerland_69 Start: 40020, Stop: 39652, Start Num: 33

Candidate Starts for Switzerland_69:

(6, 40128), (10, 40110), (Start: 33 @40020 has 12 MA's), (56, 39810), (79, 39684), (83, 39666),

Gene: Tailonex_57 Start: 40296, Stop: 39958, Start Num: 43

Candidate Starts for Tailonex_57:

(20, 40407), (28, 40377), (Start: 43 @40296 has 1 MA's), (47, 40248), (72, 40059), (78, 40014), (81, 39996),

Gene: Teodoridan_57 Start: 39474, Stop: 39133, Start Num: 44

Candidate Starts for Teodoridan_57:

(17, 39600), (30, 39552), (39, 39492), (Start: 44 @39474 has 1 MA's), (59, 39303), (63, 39282), (78, 39204), (85, 39165),

Gene: Underpass_94 Start: 56960, Stop: 57367, Start Num: 18

Candidate Starts for Underpass_94:

(Start: 18 @56960 has 6 MA's), (37, 57065), (41, 57074), (54, 57209), (64, 57302), (72, 57332),

Gene: Vetrix_100 Start: 61960, Stop: 62376, Start Num: 19

Candidate Starts for Vetrix_100:

(Start: 18 @61957 has 6 MA's), (Start: 19 @61960 has 1 MA's), (24, 61978), (64, 62299),

Gene: Wildcat_93 Start: 56150, Stop: 56518, Start Num: 29

Candidate Starts for Wildcat_93:

(Start: 29 @56150 has 2 MA's), (49, 56291), (57, 56408), (64, 56444), (70, 56468), (72, 56474), (74, 56495),

Gene: Yoncess_50 Start: 36451, Stop: 36113, Start Num: 40

Candidate Starts for Yoncess_50:

(21, 36553), (Start: 40 @36451 has 3 MA's), (56, 36274), (63, 36235), (64, 36232), (67, 36223), (78, 36157),

Gene: Zany_25 Start: 17287, Stop: 17679, Start Num: 22

Candidate Starts for Zany_25:

(15, 17266), (Start: 22 @17287 has 4 MA's), (25, 17311), (34, 17353), (Start: 35 @17371 has 3 MA's), (66, 17614), (72, 17638),