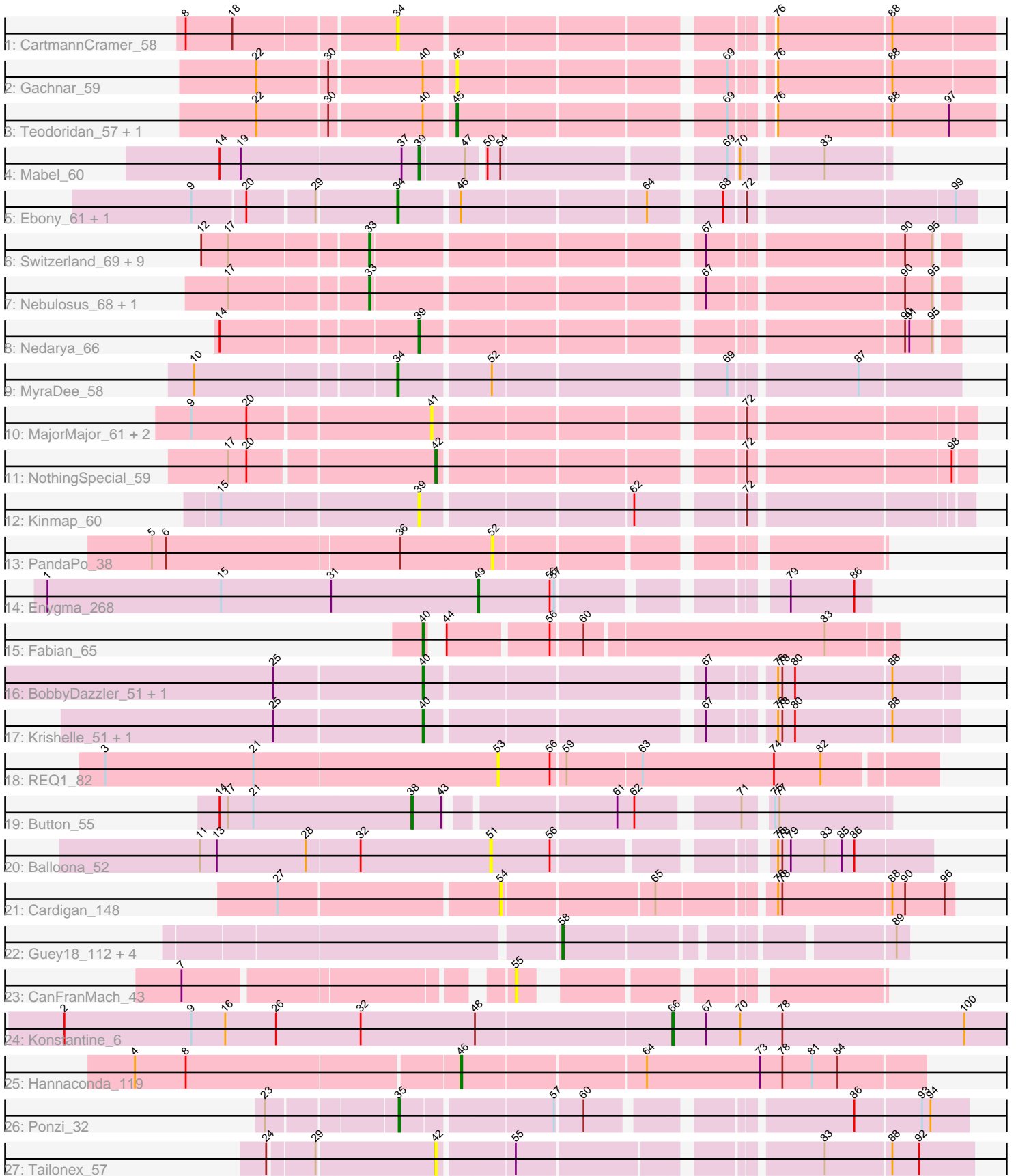


Pham 296681



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 296681 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296681 has 47 members, 14 are drafts.

Phages represented in each track:

- Track 1 : CartmannCramer_58
- Track 2 : Gachnar_59
- Track 3 : Teodoridan_57, IgnatiusPatJac_59
- Track 4 : Mabel_60
- Track 5 : Ebony_61, Salz_60
- Track 6 : Switzerland_69, MinecraftSteve_70, ShayRa_70, Anaysia_70, LastResort_68, JSwag_69, Strosahl_70, Battleship_72, Remus_70, ReMo_68
- Track 7 : Nebulosus_68, Epsocamisio_67
- 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 : PandaPo_38
- Track 14 : Enygma_268
- Track 15 : Fabian_65
- Track 16 : BobbyDazzler_51, Yoncess_50
- Track 17 : Krishelle_51, RER2_44
- Track 18 : REQ1_82
- Track 19 : Button_55
- Track 20 : Balloona_52
- Track 21 : Cardigan_148
- Track 22 : Guey18_112, Volt_111, Fryberger_107, Ronaldo_109, Ziko_110
- Track 23 : CanFranMach_43
- Track 24 : Konstantine_6
- Track 25 : Hannaconda_119
- 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 33 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:

- Balloona_52, BobbyDazzler_51, Bradman_61, Button_55, CanFranMach_43, Cardigan_148, CartmannCramer_58, Ebony_61, Enygma_268, Fabian_65, Fryberger_107, Gachnar_59, Guey18_112, Hannaconda_119, IgnatiusPatJac_59, Kinmap_60, Konstantine_6, Krishelle_51, Mabel_60, MajorMajor_61, MyraDee_58, Nedarya_66, NothingSpecial_59, PandaPo_38, Ponzi_32, Quokka_60, REQ1_82, RER2_44, Ronaldo_109, Salz_60, Tailonex_57, Teodoridan_57, Volt_111, Yoncess_50, Ziko_110,

Summary by start number:

Start 33:

- Found in 12 of 47 (25.5%) of genes in pham
- Manual Annotations of this start: 12 of 33
- 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 34:

- Found in 4 of 47 (8.5%) of genes in pham
- Manual Annotations of this start: 3 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CartmannCramer_58 (A1), Ebony_61 (A11), MyraDee_58 (A18), Salz_60 (A11),

Start 35:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi_32 (singleton),

Start 38:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_55 (CT),

Start 39:

- Found in 3 of 47 (6.4%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap_60 (A21), Mabel_60 (A11), Nedarya_66 (A15),

Start 40:

- Found in 8 of 47 (17.0%) of genes in pham
- Manual Annotations of this start: 4 of 33
- Called 62.5% of time when present
- Phage (with cluster) where this start called: BobbyDazzler_51 (CA), Fabian_65 (BF), Krishelle_51 (CA), RER2_44 (CA), Yoncess_50 (CA),

Start 41:

- Found in 3 of 47 (6.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bradman_61 (A2), MajorMajor_61 (A2), Quokka_60 (A2),

Start 42:

- Found in 2 of 47 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NothingSpecial_59 (A2), Tailonex_57 (singleton),

Start 45:

- Found in 3 of 47 (6.4%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gachnar_59 (A1), IgnatiusPatJac_59 (A1), Teodoridan_57 (A1),

Start 46:

- Found in 3 of 47 (6.4%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hannaconda_119 (J),

Start 49:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_268 (BE2),

Start 51:

- Found in 1 of 47 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balloona_52 (CT),

Start 52:

- Found in 2 of 47 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PandaPo_38 (AZ1),

Start 53:

- Found in 1 of 47 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ1_82 (CF),

Start 54:

- Found in 2 of 47 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cardigan_148 (DD),

Start 55:

- Found in 2 of 47 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: CanFranMach_43 (EB),

Start 58:

- Found in 5 of 47 (10.6%) of genes in pham
- Manual Annotations of this start: 5 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_107 (DP), Guey18_112 (DP), Ronaldo_109 (DP), Volt_111 (DP), Ziko_110 (DP),

Start 66:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Konstantine_6 (H1),

Summary by clusters:

There are 18 clusters represented in this pham: A15, A21, singleton, H1, A11, A18, DD, J, CF, EB, A1, BF, A2, BE2, AZ1, CA, DP, CT,

Info for manual annotations of cluster A1:

- Start number 45 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:

- Start number 34 was manually annotated 2 times for cluster A11.
- Start number 39 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A15:

- Start number 33 was manually annotated 12 times for cluster A15.
- Start number 39 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:

- Start number 34 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 42 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster BE2:

- Start number 49 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BF:

- Start number 40 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster CA:

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

Info for manual annotations of cluster CT:

- Start number 38 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DP:

- Start number 58 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster H1:

- Start number 66 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster J:

- Start number 46 was manually annotated 1 time for cluster J.

Gene Information:

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

Candidate Starts for Anaysia_70:

(12, 40029), (17, 40011), (Start: 33 @39921 has 12 MA's), (67, 39711), (90, 39585), (95, 39567),

Gene: Balloona_52 Start: 38168, Stop: 37893, Start Num: 51

Candidate Starts for Balloona_52:

(11, 38369), (13, 38357), (28, 38294), (32, 38258), (51, 38168), (56, 38126), (76, 38000), (78, 37997), (79, 37991), (83, 37967), (85, 37955), (86, 37946),

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

Candidate Starts for Battleship_72:

(12, 40235), (17, 40217), (Start: 33 @40127 has 12 MA's), (67, 39917), (90, 39791), (95, 39773),

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

Candidate Starts for BobbyDazzler_51:

(25, 36845), (Start: 40 @36743 has 4 MA's), (67, 36566), (76, 36527), (78, 36524), (80, 36515), (88, 36449),

Gene: Bradman_61 Start: 38947, Stop: 38609, Start Num: 41

Candidate Starts for Bradman_61:

(9, 39106), (20, 39067), (41, 38947), (72, 38755),

Gene: Button_55 Start: 37507, Stop: 37208, Start Num: 38

Candidate Starts for Button_55:

(14, 37642), (17, 37636), (21, 37618), (Start: 38 @37507 has 1 MA's), (43, 37486), (61, 37378), (62, 37366), (71, 37303), (75, 37288), (77, 37285),

Gene: CanFranMach_43 Start: 29715, Stop: 29924, Start Num: 55

Candidate Starts for CanFranMach_43:

(7, 29517), (55, 29715),

Gene: Cardigan_148 Start: 81042, Stop: 81335, Start Num: 54

Candidate Starts for Cardigan_148:

(27, 80895), (54, 81042), (65, 81144), (76, 81216), (78, 81219), (88, 81294), (90, 81303), (96, 81330),

Gene: CartmannCramer_58 Start: 42140, Stop: 41766, Start Num: 34

Candidate Starts for CartmannCramer_58:

(8, 42278), (18, 42245), (Start: 34 @42140 has 3 MA's), (76, 41912), (88, 41834),

Gene: Ebony_61 Start: 38810, Stop: 38445, Start Num: 34

Candidate Starts for Ebony_61:

(9, 38942), (20, 38906), (29, 38864), (Start: 34 @38810 has 3 MA's), (Start: 46 @38771 has 1 MA's), (64, 38648), (68, 38606), (72, 38594), (99, 38459),

Gene: Enyigma_268 Start: 121650, Stop: 121411, Start Num: 49

Candidate Starts for Enyigma_268:

(1, 121953), (15, 121830), (31, 121752), (Start: 49 @121650 has 1 MA's), (56, 121599), (57, 121596), (79, 121467), (86, 121422),

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

Candidate Starts for Epsocamisio_67:

(17, 39546), (Start: 33 @39456 has 12 MA's), (67, 39246), (90, 39120), (95, 39102),

Gene: Fabian_65 Start: 36190, Stop: 36489, Start Num: 40

Candidate Starts for Fabian_65:

(Start: 40 @36190 has 4 MA's), (44, 36193), (56, 36259), (60, 36280), (83, 36442),

Gene: Fryberger_107 Start: 52902, Stop: 53111, Start Num: 58

Candidate Starts for Fryberger_107:

(Start: 58 @52902 has 5 MA's), (89, 53103),

Gene: Gachnar_59 Start: 40593, Stop: 40255, Start Num: 45

Candidate Starts for Gachnar_59:

(22, 40719), (30, 40671), (Start: 40 @40611 has 4 MA's), (Start: 45 @40593 has 1 MA's), (69, 40422), (76, 40401), (88, 40323),

Gene: Guey18_112 Start: 54225, Stop: 54434, Start Num: 58

Candidate Starts for Guey18_112:

(Start: 58 @54225 has 5 MA's), (89, 54426),

Gene: Hannaconda_119 Start: 67166, Stop: 67480, Start Num: 46

Candidate Starts for Hannaconda_119:

(4, 66944), (8, 66980), (Start: 46 @67166 has 1 MA's), (64, 67289), (73, 67367), (78, 67382), (81, 67403), (84, 67421),

Gene: IgnatiusPatJac_59 Start: 40122, Stop: 39781, Start Num: 45

Candidate Starts for IgnatiusPatJac_59:

(22, 40248), (30, 40200), (Start: 40 @40140 has 4 MA's), (Start: 45 @40122 has 1 MA's), (69, 39951), (76, 39930), (88, 39852), (97, 39813),

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

Candidate Starts for JSwag_69:

(12, 39753), (17, 39735), (Start: 33 @39645 has 12 MA's), (67, 39435), (90, 39309), (95, 39291),

Gene: Kinmap_60 Start: 38242, Stop: 37898, Start Num: 39

Candidate Starts for Kinmap_60:

(15, 38374), (Start: 39 @38242 has 2 MA's), (62, 38104), (72, 38041),

Gene: Konstantine_6 Start: 4385, Stop: 4636, Start Num: 66

Candidate Starts for Konstantine_6:

(2, 3959), (9, 4049), (16, 4073), (26, 4109), (32, 4169), (48, 4250), (Start: 66 @4385 has 1 MA's), (67, 4409), (70, 4433), (78, 4463), (100, 4592),

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

Candidate Starts for Krishelle_51:

(25, 37168), (Start: 40 @37066 has 4 MA's), (67, 36889), (76, 36850), (78, 36847), (80, 36838), (88, 36772),

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

Candidate Starts for LastResort_68:

(12, 39805), (17, 39787), (Start: 33 @39697 has 12 MA's), (67, 39487), (90, 39361), (95, 39343),

Gene: Mabel_60 Start: 38750, Stop: 38463, Start Num: 39

Candidate Starts for Mabel_60:

(14, 38888), (19, 38873), (37, 38762), (Start: 39 @38750 has 2 MA's), (47, 38720), (50, 38711), (54, 38702), (69, 38561), (70, 38555), (83, 38507),

Gene: MajorMajor_61 Start: 38947, Stop: 38609, Start Num: 41

Candidate Starts for MajorMajor_61:

(9, 39106), (20, 39067), (41, 38947), (72, 38755),

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

Candidate Starts for MinecraftSteve_70:

(12, 40041), (17, 40023), (Start: 33 @39933 has 12 MA's), (67, 39723), (90, 39597), (95, 39579),

Gene: MyraDee_58 Start: 36584, Stop: 36225, Start Num: 34

Candidate Starts for MyraDee_58:

(10, 36716), (Start: 34 @36584 has 3 MA's), (52, 36524), (69, 36374), (87, 36293),

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

Candidate Starts for Nebulosus_68:

(17, 39783), (Start: 33 @39693 has 12 MA's), (67, 39483), (90, 39357), (95, 39339),

Gene: Nedarya_66 Start: 39619, Stop: 39284, Start Num: 39

Candidate Starts for Nedarya_66:

(14, 39748), (Start: 39 @39619 has 2 MA's), (90, 39316), (91, 39313), (95, 39298),

Gene: NothingSpecial_59 Start: 39991, Stop: 39656, Start Num: 42

Candidate Starts for NothingSpecial_59:

(17, 40126), (20, 40114), (Start: 42 @39991 has 1 MA's), (72, 39802), (98, 39670),

Gene: PandaPo_38 Start: 27626, Stop: 27865, Start Num: 52

Candidate Starts for PandaPo_38:

(5, 27398), (6, 27407), (36, 27563), (52, 27626),

Gene: Ponzi_32 Start: 17880, Stop: 17527, Start Num: 35

Candidate Starts for Ponzi_32:

(23, 17964), (Start: 35 @17880 has 1 MA's), (57, 17781), (60, 17763), (86, 17604), (93, 17559), (94, 17553),

Gene: Quokka_60 Start: 38947, Stop: 38609, Start Num: 41

Candidate Starts for Quokka_60:

(9, 39106), (20, 39067), (41, 38947), (72, 38755),

Gene: REQ1_82 Start: 49241, Stop: 49534, Start Num: 53

Candidate Starts for REQ1_82:

(3, 48968), (21, 49073), (53, 49241), (56, 49277), (59, 49286), (63, 49337), (74, 49427), (82, 49460),

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

Candidate Starts for RER2_44:

(25, 33671), (Start: 40 @33569 has 4 MA's), (67, 33392), (76, 33353), (78, 33350), (80, 33341), (88, 33275),

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

Candidate Starts for ReMo_68:

(12, 39802), (17, 39784), (Start: 33 @39694 has 12 MA's), (67, 39484), (90, 39358), (95, 39340),

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

Candidate Starts for Remus_70:

(12, 39793), (17, 39775), (Start: 33 @39685 has 12 MA's), (67, 39475), (90, 39349), (95, 39331),

Gene: Ronaldo_109 Start: 53807, Stop: 54016, Start Num: 58

Candidate Starts for Ronaldo_109:

(Start: 58 @53807 has 5 MA's), (89, 54008),

Gene: Salz_60 Start: 38758, Stop: 38393, Start Num: 34

Candidate Starts for Salz_60:

(9, 38890), (20, 38854), (29, 38812), (Start: 34 @38758 has 3 MA's), (Start: 46 @38719 has 1 MA's), (64, 38596), (68, 38554), (72, 38542), (99, 38407),

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

Candidate Starts for ShayRa_70:

(12, 39989), (17, 39971), (Start: 33 @39881 has 12 MA's), (67, 39671), (90, 39545), (95, 39527),

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

Candidate Starts for Strosahl_70:

(12, 39793), (17, 39775), (Start: 33 @39685 has 12 MA's), (67, 39475), (90, 39349), (95, 39331),

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

Candidate Starts for Switzerland_69:

(12, 40128), (17, 40110), (Start: 33 @40020 has 12 MA's), (67, 39810), (90, 39684), (95, 39666),

Gene: Tailonex_57 Start: 40296, Stop: 39958, Start Num: 42

Candidate Starts for Tailonex_57:

(24, 40407), (29, 40377), (Start: 42 @40296 has 1 MA's), (55, 40248), (83, 40059), (88, 40014), (92, 39996),

Gene: Teodoridan_57 Start: 39474, Stop: 39133, Start Num: 45

Candidate Starts for Teodoridan_57:

(22, 39600), (30, 39552), (Start: 40 @39492 has 4 MA's), (Start: 45 @39474 has 1 MA's), (69, 39303), (76, 39282), (88, 39204), (97, 39165),

Gene: Volt_111 Start: 53971, Stop: 54180, Start Num: 58

Candidate Starts for Volt_111:

(Start: 58 @53971 has 5 MA's), (89, 54172),

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

Candidate Starts for Yoncess_50:

(25, 36553), (Start: 40 @36451 has 4 MA's), (67, 36274), (76, 36235), (78, 36232), (80, 36223), (88, 36157),

Gene: Ziko_110 Start: 53813, Stop: 54022, Start Num: 58

Candidate Starts for Ziko_110:

(Start: 58 @53813 has 5 MA's), (89, 54014),