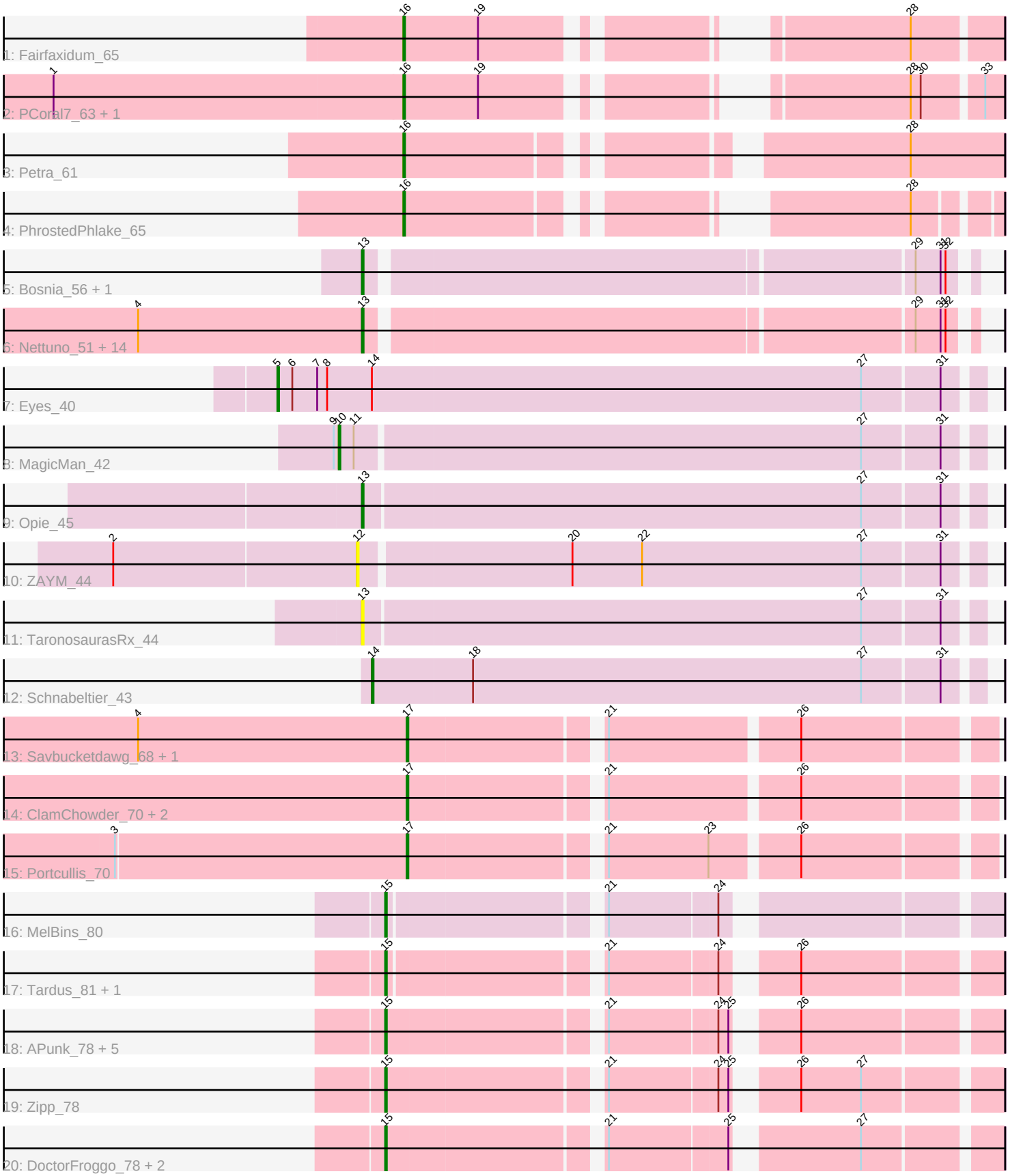
Pham 161952


1: Fairfaxidum_65
2: PCoral7_63 + 1
3: Petra_61
4: PhrostedPhlake_65
5: Bosnia_56 + 1
6: Nettuno_51 + 14
7: Eyes_40
8: MagicMan_42
9: Opie_45
10: ZAYM_44
11: TaronosaurasRx_44
12: Schnabeltier_43
13: Savbucketdawg_68 + 1
14: ClamChowder_70 + 2
15: Portcullis_70
16: MelBins_80
17: Tardus_81 + 1
18: APunk_78 + 5
19: Zipp_78
20: DoctorFroggo_78 + 2

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 161952 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161952 has 47 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Fairfaxidum_65
• Track 2 : PCoral7_63, Toast_63
• Track 3 : Petra_61
• Track 4 : PhrostedPhlake_65
• Track 5 : Bosnia_56, Ohgeesy_58
• Track 6 : Nettuno_51, Clap_55, Haley23_55, Cynthia_55, Lamberg_51, GemG_55, TuertoX_55, Gizermo_55, Ebert_59, Savage_55, Whiteclaw_55, Sahara_54, Mocha12_55, Sproutie_55, Bjanes7_52
• Track 7 : Eyes_40
• Track 8 : MagicMan_42
• Track 9 : Opie_45
• Track 10 : ZAYM_44
• Track 11 : TaronosaurasRx_44
• Track 12 : Schnabeltier_43
• Track 13 : Savbucketdawg_68, Jambalaya_68
• Track 14 : ClamChowder_70, Barb_70, Fugax_71
• Track 15 : Portcullis_70
• Track 16 : MelBins_80
• Track 17 : Tardus_81, Zitch_79
• Track 18 : APunk_78, ViaConlectus_77, Scioto_78, Natkenzie_78, Sampson_80, Abblin_78
• Track 19 : Zipp_78
• Track 20 : DoctorFroggo_78, Delrey21_78, Verity_77

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

The start number called the most often in the published annotations is 13, it was called in 18 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bjanes7_52, Bosnia_56, Clap_55, Cynthia_55, Ebert_59, GemG_55, Gizermo_55, Haley23_55, Lamberg_51, Mocha12_55, Nettuno_51, Ohgeesy_58, Opie_45, Sahara_54, Savage_55, Sproutie_55, TaronosaurasRx_44, TuertoX_55, Whiteclaw_55,

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

Genes that do not have the "Most Annotated" start:
• APunk_78, Abblin_78, Barb_70, ClamChowder_70, Delrey21_78, DoctorFroggo_78, Eyes_40, Fairfaxidum_65, Fugax_71, Jambalaya_68, MagicMan_42, MelBins_80, Natkenzie_78, PCoral7_63, Petra_61, PhrostedPhlake_65, Portcullis_70, Sampson_80, Savbucketdawg_68, Schnabeltier_43, Scioto_78, Tardus_81, Toast_63, Verity_77, ViaConlectus_77, ZAYM_44, Zipp_78, Zitch_79,

Summary by start number:

Start 5:
• Found in 1 of 47 (2.1%) 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: Eyes_40 (DB),

Start 10:
• Found in 1 of 47 (2.1%) 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: MagicMan_42 (DB),

Start 12:
• 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: ZAYM_44 (DB),

Start 13:
• Found in 19 of 47 (40.4%) of genes in pham
• Manual Annotations of this start: 18 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bjanes7_52 (CZ2), Bosnia_56 (CZ1), Clap_55 (CZ2), Cynthia_55 (CZ2), Ebert_59 (CZ2), GemG_55 (CZ2), Gizermo_55 (CZ2), Haley23_55 (CZ2), Lamberg_51 (CZ2), Mocha12_55 (CZ2), Nettuno_51 (CZ2), Ohgeesy_58 (CZ), Opie_45 (DB), Sahara_54 (CZ2), Savage_55 (CZ2), Sproutie_55 (CZ2), TaronosaurasRx_44 (DB), TuertoX_55 (CZ2), Whiteclaw_55 (CZ2),

Start 14:
• Found in 2 of 47 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 42
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Schnabeltier_43 (DB),

Start 15:
• Found in 13 of 47 (27.7%) of genes in pham
• Manual Annotations of this start: 10 of 42
• Called 100.0% of time when present

• Phage (with cluster) where this start called: APunk_78 (DE4), Abblin_78 (DE4), Delrey21_78 (DE4), DoctorFroggo_78 (DE4), MelBins_80 (DE2), Natkenzie_78 (DE4), Sampson_80 (DE4), Scioto_78 (DE4), Tardus_81 (DE4), Verity_77 (DE4), ViaConlectus_77 (DE4), Zipp_78 (DE4), Zitch_79 (DE4),

Start 16:
• Found in 5 of 47 (10.6%) of genes in pham
• Manual Annotations of this start: 5 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fairfaxidum_65 (CV), PCoral7_63 (CV), Petra_61 (CV), PhrostedPhlake_65 (CV), Toast_63 (CV),

Start 17:
• Found in 6 of 47 (12.8%) of genes in pham
• Manual Annotations of this start: 6 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barb_70 (DC1), ClamChowder_70 (DC1), Fugax_71 (DC1), Jambalaya_68 (DC1), Portcullis_70 (DC1), Savbucketdawg_68 (DC1),

Summary by clusters:

There are 8 clusters represented in this pham: CZ2, DE4, DE2, CZ1, DB, CZ, CV, DC1,

Info for manual annotations of cluster CV:
•Start number 16 was manually annotated 5 times for cluster CV.

Info for manual annotations of cluster CZ:
•Start number 13 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 13 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 13 was manually annotated 15 times for cluster CZ2.

Info for manual annotations of cluster DB:
•Start number 5 was manually annotated 1 time for cluster DB.
•Start number 10 was manually annotated 1 time for cluster DB.
•Start number 13 was manually annotated 1 time for cluster DB.
•Start number 14 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DC1:
•Start number 17 was manually annotated 6 times for cluster DC1.

Info for manual annotations of cluster DE2:
•Start number 15 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DE4:
•Start number 15 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_78 Start: 54783, Stop: 55109, Start Num: 15
Candidate Starts for APunk_78:
(Start: 15 @54783 has 10 MA's), (21, 54903), (24, 54966), (25, 54972), (26, 54999),

Gene: Abblin_78 Start: 54941, Stop: 55267, Start Num: 15
Candidate Starts for Abblin_78:
(Start: 15 @54941 has 10 MA's), (21, 55061), (24, 55124), (25, 55130), (26, 55157),

Gene: Barb_70 Start: 49043, Stop: 49366, Start Num: 17
Candidate Starts for Barb_70:
(Start: 17 @49043 has 6 MA's), (21, 49151), (26, 49259),

Gene: Bjanes7_52 Start: 36877, Stop: 37221, Start Num: 13
Candidate Starts for Bjanes7_52:
(4, 36742), (Start: 13 @36877 has 18 MA's), (29, 37192), (31, 37207), (32, 37210),

Gene: Bosnia_56 Start: 42843, Stop: 43187, Start Num: 13
Candidate Starts for Bosnia_56:
(Start: 13 @42843 has 18 MA's), (29, 43158), (31, 43173), (32, 43176),

Gene: ClamChowder_70 Start: 49043, Stop: 49366, Start Num: 17
Candidate Starts for ClamChowder_70:
(Start: 17 @49043 has 6 MA's), (21, 49151), (26, 49259),

Gene: Clap_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Clap_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Cynthia_55 Start: 37054, Stop: 37398, Start Num: 13
Candidate Starts for Cynthia_55:
(4, 36919), (Start: 13 @37054 has 18 MA's), (29, 37369), (31, 37384), (32, 37387),

Gene: Delrey21_78 Start: 56364, Stop: 56690, Start Num: 15
Candidate Starts for Delrey21_78:
(Start: 15 @56364 has 10 MA's), (21, 56484), (25, 56553), (27, 56616),

Gene: DoctorFroggo_78 Start: 56364, Stop: 56690, Start Num: 15
Candidate Starts for DoctorFroggo_78:
(Start: 15 @56364 has 10 MA's), (21, 56484), (25, 56553), (27, 56616),

Gene: Ebert_59 Start: 37488, Stop: 37832, Start Num: 13
Candidate Starts for Ebert_59:
(4, 37353), (Start: 13 @37488 has 18 MA's), (29, 37803), (31, 37818), (32, 37821),

Gene: Eyes_40 Start: 32626, Stop: 33042, Start Num: 5
Candidate Starts for Eyes_40:
(Start: 5 @32626 has 1 MA's), (6, 32635), (7, 32650), (8, 32656), (Start: 14 @32683 has 1 MA's), (27, 32977), (31, 33022),

Gene: Fairfaxidum_65 Start: 42953, Stop: 43249, Start Num: 16
Candidate Starts for Fairfaxidum_65:

(Start: 16 @42953 has 5 MA's), (19, 42998), (28, 43199),

Gene: Fugax_71 Start: 49035, Stop: 49358, Start Num: 17
Candidate Starts for Fugax_71:
(Start: 17 @49035 has 6 MA's), (21, 49143), (26, 49251),

Gene: GemG_55 Start: 37060, Stop: 37404, Start Num: 13
Candidate Starts for GemG_55:
(4, 36925), (Start: 13 @37060 has 18 MA's), (29, 37375), (31, 37390), (32, 37393),

Gene: Gizermo_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Gizermo_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Haley23_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Haley23_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Jambalaya_68 Start: 49218, Stop: 49541, Start Num: 17
Candidate Starts for Jambalaya_68:
(4, 49056), (Start: 17 @49218 has 6 MA's), (21, 49326), (26, 49434),

Gene: Lamberg_51 Start: 35565, Stop: 35909, Start Num: 13
Candidate Starts for Lamberg_51:
(4, 35430), (Start: 13 @35565 has 18 MA's), (29, 35880), (31, 35895), (32, 35898),

Gene: MagicMan_42 Start: 33173, Stop: 33547, Start Num: 10
Candidate Starts for MagicMan_42:
(9, 33170), (Start: 10 @33173 has 1 MA's), (11, 33182), (27, 33482), (31, 33527),

Gene: MelBins_80 Start: 55476, Stop: 55799, Start Num: 15
Candidate Starts for MelBins_80:
(Start: 15 @55476 has 10 MA's), (21, 55593), (24, 55656),

Gene: Mocha12_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Mocha12_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Natkenzie_78 Start: 54941, Stop: 55267, Start Num: 15
Candidate Starts for Natkenzie_78:
(Start: 15 @54941 has 10 MA's), (21, 55061), (24, 55124), (25, 55130), (26, 55157),

Gene: Nettuno_51 Start: 35565, Stop: 35909, Start Num: 13
Candidate Starts for Nettuno_51:
(4, 35430), (Start: 13 @35565 has 18 MA's), (29, 35880), (31, 35895), (32, 35898),

Gene: Ohgeesy_58 Start: 41538, Stop: 41882, Start Num: 13
Candidate Starts for Ohgeesy_58:
(Start: 13 @41538 has 18 MA's), (29, 41853), (31, 41868), (32, 41871),

Gene: Opie_45 Start: 33507, Stop: 33869, Start Num: 13
Candidate Starts for Opie_45:
(Start: 13 @33507 has 18 MA's), (27, 33804), (31, 33849),

Gene: PCoral7_63 Start: 42091, Stop: 42387, Start Num: 16
Candidate Starts for PCoral7_63:
(1, 41887), (Start: 16 @42091 has 5 MA's), (19, 42136), (28, 42337), (30, 42343), (33, 42376),

Gene: Petra_61 Start: 40223, Stop: 40537, Start Num: 16
Candidate Starts for Petra_61:
(Start: 16 @40223 has 5 MA's), (28, 40481),

Gene: PhrostedPhlake_65 Start: 40981, Stop: 41271, Start Num: 16
Candidate Starts for PhrostedPhlake_65:
(Start: 16 @40981 has 5 MA's), (28, 41227),

Gene: Portcullis_70 Start: 49254, Stop: 49577, Start Num: 17
Candidate Starts for Portcullis_70:
(3, 49080), (Start: 17 @49254 has 6 MA's), (21, 49362), (23, 49422), (26, 49470),

Gene: Sahara_54 Start: 36803, Stop: 37147, Start Num: 13
Candidate Starts for Sahara_54:
(4, 36668), (Start: 13 @36803 has 18 MA's), (29, 37118), (31, 37133), (32, 37136),

Gene: Sampson_80 Start: 55092, Stop: 55418, Start Num: 15
Candidate Starts for Sampson_80:
(Start: 15 @55092 has 10 MA's), (21, 55212), (24, 55275), (25, 55281), (26, 55308),

Gene: Savage_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Savage_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Savbucketdawg_68 Start: 49218, Stop: 49541, Start Num: 17
Candidate Starts for Savbucketdawg_68:
(4, 49056), (Start: 17 @49218 has 6 MA's), (21, 49326), (26, 49434),

Gene: Schnabeltier_43 Start: 33377, Stop: 33736, Start Num: 14
Candidate Starts for Schnabeltier_43:
(Start: 14 @33377 has 1 MA's), (18, 33437), (27, 33671), (31, 33716),

Gene: Scioto_78 Start: 54942, Stop: 55268, Start Num: 15
Candidate Starts for Scioto_78:
(Start: 15 @54942 has 10 MA's), (21, 55062), (24, 55125), (25, 55131), (26, 55158),

Gene: Sproutie_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Sproutie_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Tardus_81 Start: 55676, Stop: 55999, Start Num: 15
Candidate Starts for Tardus_81:
(Start: 15 @55676 has 10 MA's), (21, 55793), (24, 55856), (26, 55889),

Gene: TaronosaurasRx_44 Start: 31909, Stop: 32271, Start Num: 13
Candidate Starts for TaronosaurasRx_44:
(Start: 13 @31909 has 18 MA's), (27, 32206), (31, 32251),

Gene: Toast_63 Start: 42091, Stop: 42387, Start Num: 16
Candidate Starts for Toast_63:
(1, 41887), (Start: 16 @42091 has 5 MA's), (19, 42136), (28, 42337), (30, 42343), (33, 42376),

Gene: TuertoX_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for TuertoX_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: Verity_77 Start: 56226, Stop: 56552, Start Num: 15
Candidate Starts for Verity_77:
(Start: 15 @56226 has 10 MA's), (21, 56346), (25, 56415), (27, 56478),

Gene: ViaConlectus_77 Start: 53513, Stop: 53839, Start Num: 15
Candidate Starts for ViaConlectus_77:
(Start: 15 @53513 has 10 MA's), (21, 53633), (24, 53696), (25, 53702), (26, 53729),

Gene: Whiteclaw_55 Start: 37056, Stop: 37400, Start Num: 13
Candidate Starts for Whiteclaw_55:
(4, 36921), (Start: 13 @37056 has 18 MA's), (29, 37371), (31, 37386), (32, 37389),

Gene: ZAYM_44 Start: 32453, Stop: 32815, Start Num: 12
Candidate Starts for ZAYM_44:
(2, 32309), (12, 32453), (20, 32576), (22, 32618), (27, 32750), (31, 32795),

Gene: Zipp_78 Start: 55940, Stop: 56266, Start Num: 15
Candidate Starts for Zipp_78:
(Start: 15 @55940 has 10 MA's), (21, 56060), (24, 56123), (25, 56129), (26, 56156), (27, 56192),

Gene: Zitch_79 Start: 54390, Stop: 54716, Start Num: 15
Candidate Starts for Zitch_79:
(Start: 15 @54390 has 10 MA's), (21, 54510), (24, 54573), (26, 54606),