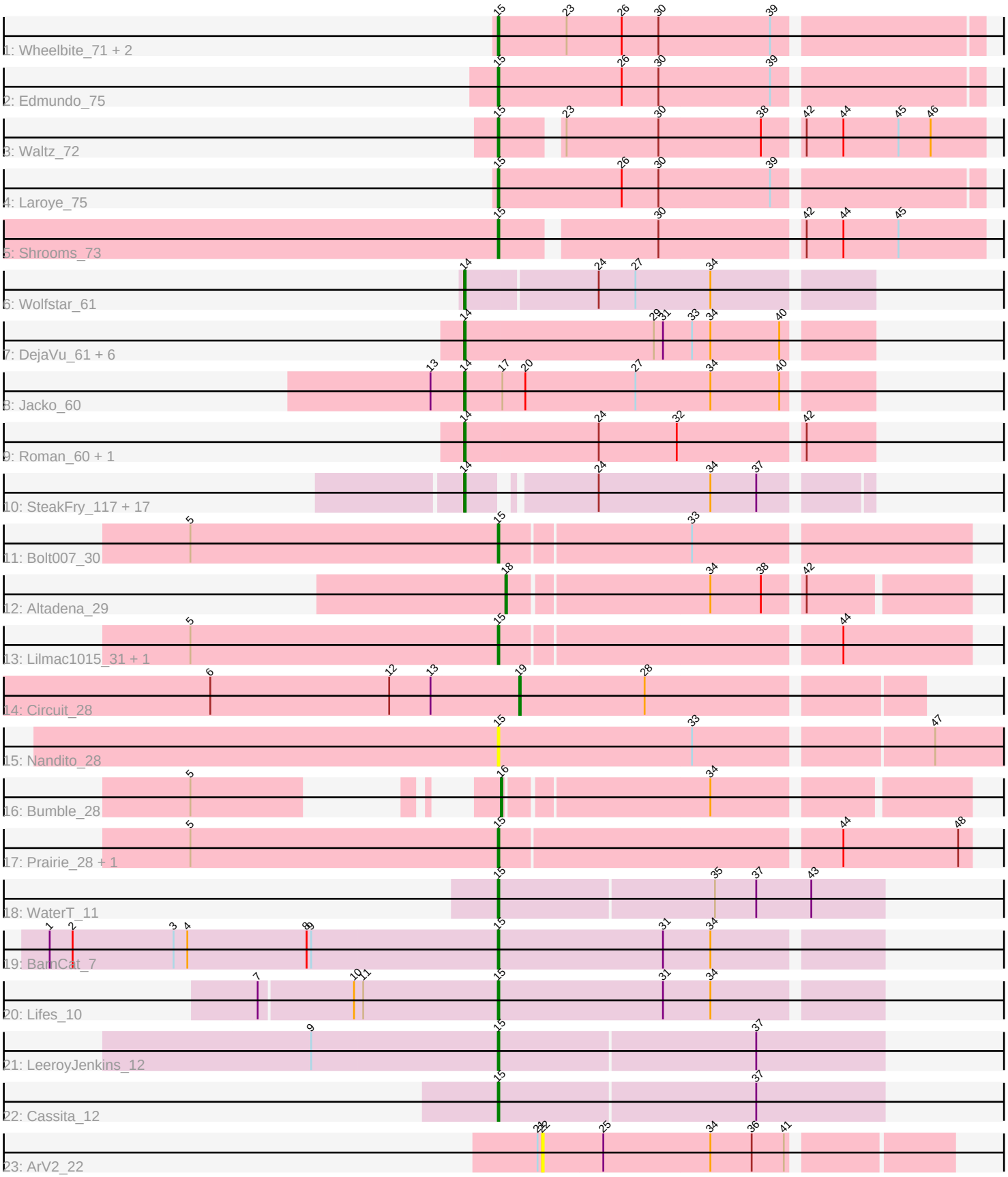
Pham 296649


1: Wheelbite_71 + 2
2: Edmundo_75
3: Waltz_72
4: Laroye_75
5: Shrooms_73
6: Wolfstar_61
7: DejaVu_61 + 6
8: Jacko_60
9: Roman_60 + 1
10: SteakFry_117 + 17
11: Bolt007_30
12: Altadena_29
13: Lilmac1015_31 + 1
14: Circuit_28
15: Nandito_28
16: Bumble_28
17: Prairie_28 + 1
18: WaterT_11
19: BarnCat_7
20: Lifes_10
21: LeeroyJenkins_12
22: Cassita_12
23: ArV2_22

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 296649 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 296649 has 51 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Wheelbite_71, Salgado_75, LiSara_72
• Track 2 : Edmundo_75
• Track 3 : Waltz_72
• Track 4 : Laroye_75
• Track 5 : Shrooms_73
• Track 6 : Wolfstar_61
• Track 7 : DejaVu_61, Pavlo_59, Solimine_60, Lupine_58, Uterion_62, Saradis_60, PhillyPhilly_59
• Track 8 : Jacko_60
• Track 9 : Roman_60, Hubbs_60
• Track 10 : SteakFry_117, SteakFry_63, Necrophoxinus_66, Erenyeager_64, Welcome_65, DustyDino_67, Casablancas_65, HollowPurple_65, Issa7_63, Deschain_65, Musetta_64, ASegato_63, Lyell_64, RunningBrook_65, Yuma_63, StevieWelch_64, Shroomer_67, Fork_60
• Track 11 : Bolt007_30
• Track 12 : Altadena_29
• Track 13 : Lilmac1015_31, CalWood4100_31
• Track 14 : Circuit_28
• Track 15 : Nandito_28
• Track 16 : Bumble_28
• Track 17 : Prairie_28, Klevey_30
• Track 18 : WaterT_11
• Track 19 : BarnCat_7
• Track 20 : Lifes_10
• Track 21 : LeeroyJenkins_12
• Track 22 : Cassita_12
• Track 23 : ArV2_22

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

The start number called the most often in the published annotations is 14, it was called in 21 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_63, Casablancas_65, DejaVu_61, Deschain_65, DustyDino_67, Erenyeager_64, Fork_60, HollowPurple_65, Hubbs_60, Issa7_63, Jacko_60, Lupine_58, Lyell_64, Musetta_64, Necrophoxinus_66, Pavlo_59, PhillyPhilly_59, Roman_60, RunningBrook_65, Saradis_60, Shroomer_67, Solimine_60, SteakFry_117, SteakFry_63, StevieWelch_64, Uterion_62, Welcome_65, Wolfstar_61, Yuma_63,

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

Genes that do not have the "Most Annotated" start:
• Altadena_29, ArV2_22, BarnCat_7, Bolt007_30, Bumble_28, CalWood4100_31, Cassita_12, Circuit_28, Edmundo_75, Klevey_30, Laroye_75, LeeroyJenkins_12, LiSara_72, Lifes_10, Lilmac1015_31, Nandito_28, Prairie_28, Salgado_75, Shrooms_73, Waltz_72, WaterT_11, Wheelbite_71,

Summary by start number:

Start 14:
• Found in 29 of 51 (56.9%) of genes in pham
• Manual Annotations of this start: 21 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_63 (ED2), Casablancas_65 (ED2), DejaVu_61 (ED1), Deschain_65 (ED2), DustyDino_67 (ED2), Erenyeager_64 (ED2), Fork_60 (ED2), HollowPurple_65 (ED2), Hubbs_60 (ED1), Issa7_63 (ED2), Jacko_60 (ED1), Lupine_58 (ED1), Lyell_64 (ED2), Musetta_64 (ED2), Necrophoxinus_66 (ED2), Pavlo_59 (ED1), PhillyPhilly_59 (ED1), Roman_60 (ED1), RunningBrook_65 (ED2), Saradis_60 (ED1), Shroomer_67 (ED2), Solimine_60 (ED1), SteakFry_117 (ED2), SteakFry_63 (ED2), StevieWelch_64 (ED2), Uterion_62 (ED1), Welcome_65 (ED2), Wolfstar_61 (ED), Yuma_63 (ED2),

Start 15:
• Found in 18 of 51 (35.3%) of genes in pham
• Manual Annotations of this start: 16 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarnCat_7 (GB), Bolt007_30 (FH), CalWood4100_31 (FH), Cassita_12 (GB), Edmundo_75 (AL), Klevey_30 (FH), Laroye_75 (AL), LeeroyJenkins_12 (GB), LiSara_72 (AL), Lifes_10 (GB), Lilmac1015_31 (FH), Nandito_28 (FH), Prairie_28 (FH), Salgado_75 (AL), Shrooms_73 (AL), Waltz_72 (AL), WaterT_11 (GB), Wheelbite_71 (AL),

Start 16:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bumble_28 (FH),

Start 18:
• Found in 1 of 51 (2.0%) of genes in pham

• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_29 (FH),

Start 19:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Circuit_28 (FH),

Start 22:
• Found in 1 of 51 (2.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_22 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, ED, AL, ED2, ED1, GB, FH,

Info for manual annotations of cluster AL:
•Start number 15 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster ED:
•Start number 14 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 14 was manually annotated 7 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 14 was manually annotated 13 times for cluster ED2.

Info for manual annotations of cluster FH:
•Start number 15 was manually annotated 4 times for cluster FH.
•Start number 16 was manually annotated 1 time for cluster FH.
•Start number 18 was manually annotated 1 time for cluster FH.
•Start number 19 was manually annotated 1 time for cluster FH.

Info for manual annotations of cluster GB:
•Start number 15 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_63 Start: 35933, Stop: 36172, Start Num: 14
Candidate Starts for ASegato_63:
(Start: 14 @35933 has 21 MA's), (24, 36005), (34, 36077), (37, 36107),

Gene: Altadena_29 Start: 23573, Stop: 23854, Start Num: 18
Candidate Starts for Altadena_29:
(Start: 18 @23573 has 1 MA's), (34, 23699), (38, 23732), (42, 23753),

Gene: ArV2_22 Start: 17796, Stop: 18050, Start Num: 22
Candidate Starts for ArV2_22:
(21, 17793), (22, 17796), (25, 17835), (34, 17904), (36, 17931), (41, 17952),

Gene: BarnCat_7 Start: 2513, Stop: 2755, Start Num: 15
Candidate Starts for BarnCat_7:
(1, 2222), (2, 2237), (3, 2303), (4, 2312), (8, 2390), (9, 2393), (Start: 15 @2513 has 16 MA's), (31, 2621), (34, 2651),

Gene: Bolt007_30 Start: 22624, Stop: 22917, Start Num: 15
Candidate Starts for Bolt007_30:
(5, 22423), (Start: 15 @22624 has 16 MA's), (33, 22744),

Gene: Bumble_28 Start: 23367, Stop: 23648, Start Num: 16
Candidate Starts for Bumble_28:
(5, 23265), (Start: 16 @23367 has 1 MA's), (34, 23493),

Gene: CalWood4100_31 Start: 22617, Stop: 22910, Start Num: 15
Candidate Starts for CalWood4100_31:
(5, 22416), (Start: 15 @22617 has 16 MA's), (44, 22827),

Gene: Casablancas_65 Start: 35673, Stop: 35912, Start Num: 14
Candidate Starts for Casablancas_65:
(Start: 14 @35673 has 21 MA's), (24, 35745), (34, 35817), (37, 35847),

Gene: Cassita_12 Start: 3271, Stop: 3519, Start Num: 15
Candidate Starts for Cassita_12:
(Start: 15 @3271 has 16 MA's), (37, 3436),

Gene: Circuit_28 Start: 24260, Stop: 24511, Start Num: 19
Candidate Starts for Circuit_28:
(6, 24059), (12, 24176), (13, 24203), (Start: 19 @24260 has 1 MA's), (28, 24341),

Gene: DejaVu_61 Start: 35839, Stop: 36096, Start Num: 14
Candidate Starts for DejaVu_61:
(Start: 14 @35839 has 21 MA's), (29, 35962), (31, 35968), (33, 35986), (34, 35998), (40, 36043),

Gene: Deschain_65 Start: 36337, Stop: 36576, Start Num: 14
Candidate Starts for Deschain_65:
(Start: 14 @36337 has 21 MA's), (24, 36409), (34, 36481), (37, 36511),

Gene: DustyDino_67 Start: 36531, Stop: 36770, Start Num: 14
Candidate Starts for DustyDino_67:
(Start: 14 @36531 has 21 MA's), (24, 36603), (34, 36675), (37, 36705),

Gene: Edmundo_75 Start: 46375, Stop: 46680, Start Num: 15
Candidate Starts for Edmundo_75:
(Start: 15 @46375 has 16 MA's), (26, 46456), (30, 46480), (39, 46552),

Gene: Erenyeager_64 Start: 35923, Stop: 36162, Start Num: 14
Candidate Starts for Erenyeager_64:
(Start: 14 @35923 has 21 MA's), (24, 35995), (34, 36067), (37, 36097),

Gene: Fork_60 Start: 35583, Stop: 35822, Start Num: 14
Candidate Starts for Fork_60:
(Start: 14 @35583 has 21 MA's), (24, 35655), (34, 35727), (37, 35757),

Gene: HollowPurple_65 Start: 36139, Stop: 36378, Start Num: 14
Candidate Starts for HollowPurple_65:
(Start: 14 @36139 has 21 MA's), (24, 36211), (34, 36283), (37, 36313),

Gene: Hubbs_60 Start: 36051, Stop: 36308, Start Num: 14
Candidate Starts for Hubbs_60:
(Start: 14 @36051 has 21 MA's), (24, 36138), (32, 36189), (42, 36264),

Gene: Issa7_63 Start: 35587, Stop: 35826, Start Num: 14
Candidate Starts for Issa7_63:
(Start: 14 @35587 has 21 MA's), (24, 35659), (34, 35731), (37, 35761),

Gene: Jacko_60 Start: 34827, Stop: 35084, Start Num: 14
Candidate Starts for Jacko_60:
(13, 34806), (Start: 14 @34827 has 21 MA's), (17, 34851), (20, 34866), (27, 34938), (34, 34986), (40, 35031),

Gene: Klevey_30 Start: 22624, Stop: 22920, Start Num: 15
Candidate Starts for Klevey_30:
(5, 22423), (Start: 15 @22624 has 16 MA's), (44, 22837), (48, 22912),

Gene: Laroye_75 Start: 45753, Stop: 46058, Start Num: 15
Candidate Starts for Laroye_75:
(Start: 15 @45753 has 16 MA's), (26, 45834), (30, 45858), (39, 45930),

Gene: LeeroyJenkins_12 Start: 3061, Stop: 3309, Start Num: 15
Candidate Starts for LeeroyJenkins_12:
(9, 2941), (Start: 15 @3061 has 16 MA's), (37, 3226),

Gene: LiSara_72 Start: 45918, Stop: 46223, Start Num: 15
Candidate Starts for LiSara_72:
(Start: 15 @45918 has 16 MA's), (23, 45963), (26, 45999), (30, 46023), (39, 46095),

Gene: Lifes_10 Start: 2650, Stop: 2892, Start Num: 15
Candidate Starts for Lifes_10:
(7, 2497), (10, 2557), (11, 2563), (Start: 15 @2650 has 16 MA's), (31, 2758), (34, 2788),

Gene: Lilmac1015_31 Start: 22617, Stop: 22910, Start Num: 15
Candidate Starts for Lilmac1015_31:
(5, 22416), (Start: 15 @22617 has 16 MA's), (44, 22827),

Gene: Lupine_58 Start: 35253, Stop: 35510, Start Num: 14
Candidate Starts for Lupine_58:
(Start: 14 @35253 has 21 MA's), (29, 35376), (31, 35382), (33, 35400), (34, 35412), (40, 35457),

Gene: Lyell_64 Start: 35842, Stop: 36081, Start Num: 14
Candidate Starts for Lyell_64:
(Start: 14 @35842 has 21 MA's), (24, 35914), (34, 35986), (37, 36016),

Gene: Musetta_64 Start: 36303, Stop: 36542, Start Num: 14
Candidate Starts for Musetta_64:
(Start: 14 @36303 has 21 MA's), (24, 36375), (34, 36447), (37, 36477),

Gene: Nandito_28 Start: 21708, Stop: 22070, Start Num: 15
Candidate Starts for Nandito_28:
(Start: 15 @21708 has 16 MA's), (33, 21834), (47, 21981),

Gene: Necrophoxinus_66 Start: 36537, Stop: 36776, Start Num: 14
Candidate Starts for Necrophoxinus_66:
(Start: 14 @36537 has 21 MA's), (24, 36609), (34, 36681), (37, 36711),

Gene: Pavlo_59 Start: 35898, Stop: 36155, Start Num: 14
Candidate Starts for Pavlo_59:
(Start: 14 @35898 has 21 MA's), (29, 36021), (31, 36027), (33, 36045), (34, 36057), (40, 36102),

Gene: PhillyPhilly_59 Start: 35432, Stop: 35689, Start Num: 14
Candidate Starts for PhillyPhilly_59:
(Start: 14 @35432 has 21 MA's), (29, 35555), (31, 35561), (33, 35579), (34, 35591), (40, 35636),

Gene: Prairie_28 Start: 22645, Stop: 22941, Start Num: 15
Candidate Starts for Prairie_28:
(5, 22444), (Start: 15 @22645 has 16 MA's), (44, 22858), (48, 22933),

Gene: Roman_60 Start: 35899, Stop: 36156, Start Num: 14
Candidate Starts for Roman_60:
(Start: 14 @35899 has 21 MA's), (24, 35986), (32, 36037), (42, 36112),

Gene: RunningBrook_65 Start: 36531, Stop: 36770, Start Num: 14
Candidate Starts for RunningBrook_65:
(Start: 14 @36531 has 21 MA's), (24, 36603), (34, 36675), (37, 36705),

Gene: Salgado_75 Start: 45569, Stop: 45874, Start Num: 15
Candidate Starts for Salgado_75:
(Start: 15 @45569 has 16 MA's), (23, 45614), (26, 45650), (30, 45674), (39, 45746),

Gene: Saradis_60 Start: 35491, Stop: 35748, Start Num: 14
Candidate Starts for Saradis_60:
(Start: 14 @35491 has 21 MA's), (29, 35614), (31, 35620), (33, 35638), (34, 35650), (40, 35695),

Gene: Shroomer_67 Start: 36073, Stop: 36312, Start Num: 14
Candidate Starts for Shroomer_67:
(Start: 14 @36073 has 21 MA's), (24, 36145), (34, 36217), (37, 36247),

Gene: Shrooms_73 Start: 44046, Stop: 44342, Start Num: 15
Candidate Starts for Shrooms_73:
(Start: 15 @44046 has 16 MA's), (30, 44139), (42, 44226), (44, 44250), (45, 44286),

Gene: Solimine_60 Start: 35905, Stop: 36162, Start Num: 14
Candidate Starts for Solimine_60:
(Start: 14 @35905 has 21 MA's), (29, 36028), (31, 36034), (33, 36052), (34, 36064), (40, 36109),

Gene: SteakFry_117 Start: 61335, Stop: 61574, Start Num: 14

Candidate Starts for SteakFry_117:
(Start: 14 @61335 has 21 MA's), (24, 61407), (34, 61479), (37, 61509),

Gene: SteakFry_63 Start: 36139, Stop: 36378, Start Num: 14
Candidate Starts for SteakFry_63:
(Start: 14 @36139 has 21 MA's), (24, 36211), (34, 36283), (37, 36313),

Gene: StevieWelch_64 Start: 35923, Stop: 36162, Start Num: 14
Candidate Starts for StevieWelch_64:
(Start: 14 @35923 has 21 MA's), (24, 35995), (34, 36067), (37, 36097),

Gene: Uterion_62 Start: 36000, Stop: 36257, Start Num: 14
Candidate Starts for Uterion_62:
(Start: 14 @36000 has 21 MA's), (29, 36123), (31, 36129), (33, 36147), (34, 36159), (40, 36204),

Gene: Waltz_72 Start: 44062, Stop: 44358, Start Num: 15
Candidate Starts for Waltz_72:
(Start: 15 @44062 has 16 MA's), (23, 44095), (30, 44155), (38, 44221), (42, 44242), (44, 44266), (45, 44302), (46, 44323),

Gene: WaterT_11 Start: 2884, Stop: 3132, Start Num: 15
Candidate Starts for WaterT_11:
(Start: 15 @2884 has 16 MA's), (35, 3022), (37, 3049), (43, 3085),

Gene: Welcome_65 Start: 36288, Stop: 36527, Start Num: 14
Candidate Starts for Welcome_65:
(Start: 14 @36288 has 21 MA's), (24, 36360), (34, 36432), (37, 36462),

Gene: Wheelbite_71 Start: 45721, Stop: 46026, Start Num: 15
Candidate Starts for Wheelbite_71:
(Start: 15 @45721 has 16 MA's), (23, 45766), (26, 45802), (30, 45826), (39, 45898),

Gene: Wolfstar_61 Start: 36943, Stop: 37197, Start Num: 14
Candidate Starts for Wolfstar_61:
(Start: 14 @36943 has 21 MA's), (24, 37027), (27, 37051), (34, 37099),

Gene: Yuma_63 Start: 35857, Stop: 36096, Start Num: 14
Candidate Starts for Yuma_63:
(Start: 14 @35857 has 21 MA's), (24, 35929), (34, 36001), (37, 36031),