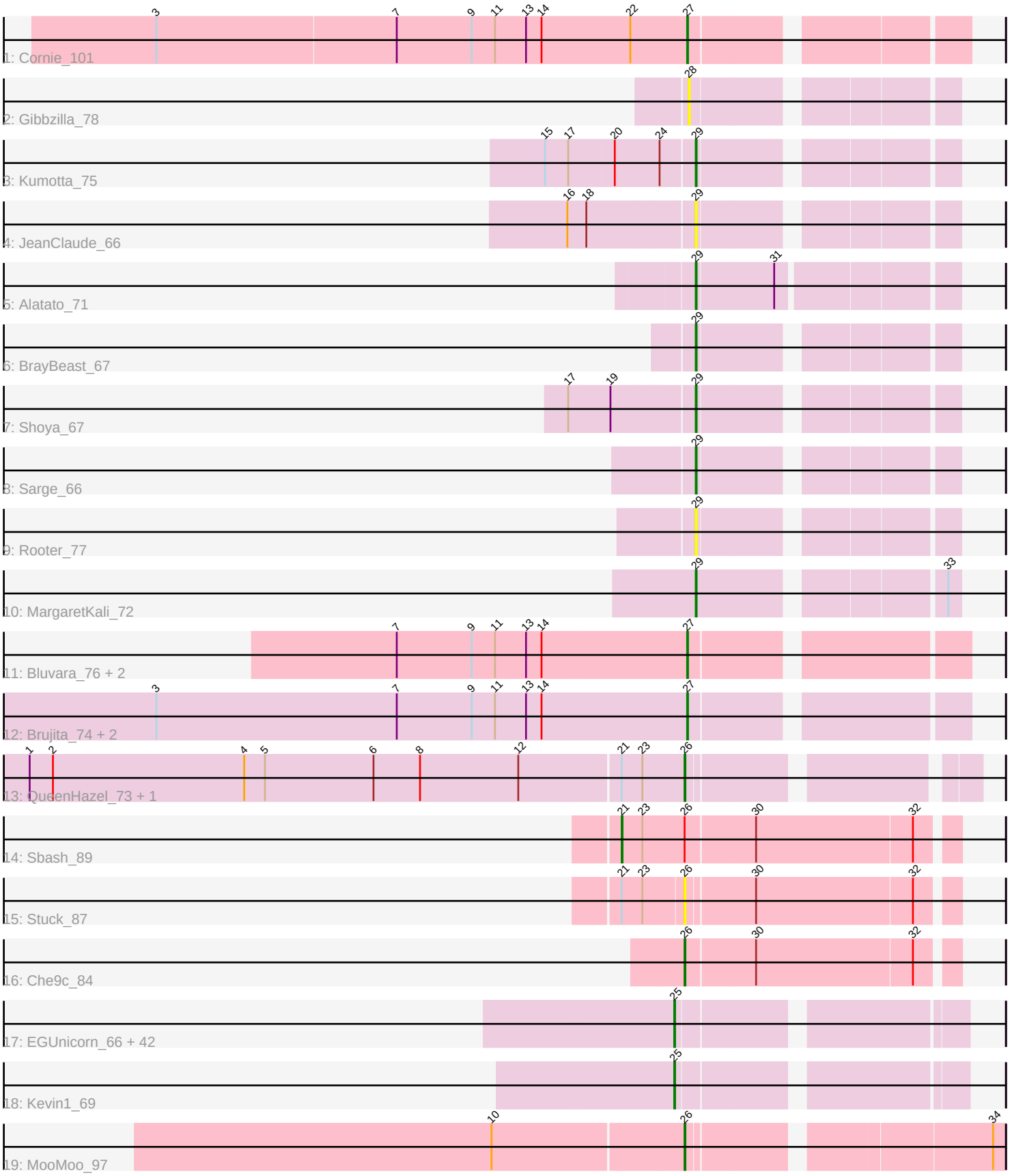
Pham 285567


1: Cornie_101
2: Gibbzilla_78
3: Kumotta_75
4: JeanClaude_66
5: Alatato_71
6: BrayBeast_67
7: Shoya_67
8: Sarge_66
9: Rooter_77
10: MargaretKali_72
11: Bluvara_76 + 2
12: Brujita_74 + 2
13: QueenHazel_73 + 1
14: Sbash_89
15: Stuck_87
16: Che9c_84
17: EGUnicorn_66 + 42
18: Kevin1_69
19: MooMoo_97

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 285567 Report

This analysis was run 03/28/26 on database version 641.

Pham number 285567 has 66 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Cornie_101
• Track 2 : Gibbzilla_78
• Track 3 : Kumotta_75
• Track 4 : JeanClaude_66
• Track 5 : Alatato_71
• Track 6 : BrayBeast_67
• Track 7 : Shoya_67
• Track 8 : Sarge_66
• Track 9 : Rooter_77
• Track 10 : MargaretKali_72
• Track 11 : Bluvara_76, PaintedDog_77, HC_78
• Track 12 : Brujita_74, Babsiella_78, Island3_76
• Track 13 : QueenHazel_73, Xula_74
• Track 14 : Sbash_89
• Track 15 : Stuck_87
• Track 16 : Che9c_84
• Track 17 : EGUnicorn_66, Rebel_66, Fulbright_70, Phloss_70, Bosection6_66, Tapioca_70, Duplicity_70, Xeno_69, Spinach_69, Chewbacca_74, ShrimpFriedEgg_70, Andies_65, Scitech_67, Hanako_69, Rubeelu_66, Gex_71, Raymond7_63, SpongeBob_65, Pipsqueaks_73, Carcharodon_71, Purgamenstris_70, Panchino_66, Charlie_69, Redi_70, Nenae_70, Xerxes_72, Magsby_71, BabeRuth_70, Jamie19_65, Phrann_67, Tortoise12_72, Shweta_66, Schnauzer_74, Tessdabest_72, Philonius_72, Aggie_67, PhancyPhin_69, Silvy_68, Parmesanjohn_72, Butters_66, MichelleMyBell_70, Smurph_72, Silvafighter_74
• Track 18 : Kevin1_69
• Track 19 : MooMoo_97

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

The start number called the most often in the published annotations is 25, it was called in 42 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aggie_67, Andies_65, BabeRuth_70, Bosection6_66, Butters_66, Carcharodon_71, Charlie_69, Chewbacca_74, Duplicity_70, EGUnicorn_66, Fulbright_70, Gex_71, Hanako_69, Jamie19_65, Kevin1_69, Magsby_71, MichelleMyBell_70, Nenae_70, Panchino_66, Parmesanjohn_72, PhancyPhin_69, Philonius_72, Phloss_70, Phrann_67, Pipsqueaks_73, Purgamenstris_70, Raymond7_63, Rebel_66, Redi_70, Rubeelu_66, Schnauzer_74, Scitech_67, ShrimpFriedEgg_70, Shweta_66, Silvafighter_74, Silvy_68, Smurph_72, Spinach_69, SpongeBob_65, Tapioca_70, Tessdabest_72, Tortoise12_72, Xeno_69, Xerxes_72,

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

Genes that do not have the "Most Annotated" start:
• Alatato_71, Babsiella_78, Bluvara_76, BrayBeast_67, Brujita_74, Che9c_84, Cornie_101, Gibbzilla_78, HC_78, Island3_76, JeanClaude_66, Kumotta_75, MargaretKali_72, MooMoo_97, PaintedDog_77, QueenHazel_73, Rooter_77, Sarge_66, Sbash_89, Shoya_67, Stuck_87, Xula_74,

Summary by start number:

Start 21:
• Found in 4 of 66 (6.1%) of genes in pham
• Manual Annotations of this start: 1 of 58
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Sbash_89 (I2),

Start 25:
• Found in 44 of 66 (66.7%) of genes in pham
• Manual Annotations of this start: 42 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aggie_67 (N), Andies_65 (N), BabeRuth_70 (N), Bosection6_66 (N), Butters_66 (N), Carcharodon_71 (N), Charlie_69 (N), Chewbacca_74 (N), Duplicity_70 (N), EGUnicorn_66 (N), Fulbright_70 (N), Gex_71 (N), Hanako_69 (N), Jamie19_65 (N), Kevin1_69 (N), Magsby_71 (N), MichelleMyBell_70 (N), Nenae_70 (N), Panchino_66 (N), Parmesanjohn_72 (N), PhancyPhin_69 (N), Philonius_72 (N), Phloss_70 (N), Phrann_67 (N), Pipsqueaks_73 (N), Purgamenstris_70 (N), Raymond7_63 (N), Rebel_66 (N), Redi_70 (N), Rubeelu_66 (N), Schnauzer_74 (N), Scitech_67 (N), ShrimpFriedEgg_70 (N), Shweta_66 (N), Silvafighter_74 (N), Silvy_68 (N), Smurph_72 (N), Spinach_69 (N), SpongeBob_65 (N), Tapioca_70 (N), Tessdabest_72 (N), Tortoise12_72 (N), Xeno_69 (N), Xerxes_72 (N),

Start 26:
• Found in 6 of 66 (9.1%) of genes in pham
• Manual Annotations of this start: 4 of 58
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Che9c_84 (I2), MooMoo_97 (singleton), QueenHazel_73 (I1), Stuck_87 (I2), Xula_74 (I1),

Start 27:
• Found in 7 of 66 (10.6%) of genes in pham
• Manual Annotations of this start: 5 of 58
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Babsiella_78 (I1), Bluvara_76 (I), Brujita_74 (I1), Cornie_101 (F5), HC_78 (I1), Island3_76 (I1), PaintedDog_77 (I1),

Start 28:
• Found in 1 of 66 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbzilla_78 (FB),

Start 29:
• Found in 8 of 66 (12.1%) of genes in pham
• Manual Annotations of this start: 6 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatato_71 (FB), BrayBeast_67 (FB), JeanClaude_66 (FB), Kumotta_75 (FB), MargaretKali_72 (FB), Rooter_77 (FB), Sarge_66 (FB), Shoya_67 (FB),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, F5, I, I2, N, I1, FB,

Info for manual annotations of cluster F5:
•Start number 27 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FB:
•Start number 29 was manually annotated 6 times for cluster FB.

Info for manual annotations of cluster I1:
•Start number 26 was manually annotated 2 times for cluster I1.
•Start number 27 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 21 was manually annotated 1 time for cluster I2.
•Start number 26 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 25 was manually annotated 42 times for cluster N.

Gene Information:

Gene: Aggie_67 Start: 43847, Stop: 44146, Start Num: 25
Candidate Starts for Aggie_67:
(Start: 25 @43847 has 42 MA's),

Gene: Alatato_71 Start: 39249, Stop: 39527, Start Num: 29
Candidate Starts for Alatato_71:
(Start: 29 @39249 has 6 MA's), (31, 39336),

Gene: Andies_65 Start: 43293, Stop: 43592, Start Num: 25
Candidate Starts for Andies_65:

(Start: 25 @43293 has 42 MA's),

Gene: BabeRuth_70 Start: 42101, Stop: 42409, Start Num: 25
Candidate Starts for BabeRuth_70:
(Start: 25 @42101 has 42 MA's),

Gene: Babsiella_78 Start: 47992, Stop: 48282, Start Num: 27
Candidate Starts for Babsiella_78:
(3, 47377), (7, 47656), (9, 47743), (11, 47770), (13, 47806), (14, 47824), (Start: 27 @47992 has 5 MA's),

Gene: Bluvara_76 Start: 49031, Stop: 49321, Start Num: 27
Candidate Starts for Bluvara_76:
(7, 48695), (9, 48782), (11, 48809), (13, 48845), (14, 48863), (Start: 27 @49031 has 5 MA's),

Gene: Bosection6_66 Start: 42917, Stop: 43225, Start Num: 25
Candidate Starts for Bosection6_66:
(Start: 25 @42917 has 42 MA's),

Gene: BrayBeast_67 Start: 37446, Stop: 37709, Start Num: 29
Candidate Starts for BrayBeast_67:
(Start: 29 @37446 has 6 MA's),

Gene: Brujita_74 Start: 46629, Stop: 46919, Start Num: 27
Candidate Starts for Brujita_74:
(3, 46014), (7, 46293), (9, 46380), (11, 46407), (13, 46443), (14, 46461), (Start: 27 @46629 has 5 MA's),

Gene: Butters_66 Start: 41009, Stop: 41308, Start Num: 25
Candidate Starts for Butters_66:
(Start: 25 @41009 has 42 MA's),

Gene: Carcharodon_71 Start: 43194, Stop: 43493, Start Num: 25
Candidate Starts for Carcharodon_71:
(Start: 25 @43194 has 42 MA's),

Gene: Charlie_69 Start: 42541, Stop: 42849, Start Num: 25
Candidate Starts for Charlie_69:
(Start: 25 @42541 has 42 MA's),

Gene: Che9c_84 Start: 56646, Stop: 56942, Start Num: 26
Candidate Starts for Che9c_84:
(Start: 26 @56646 has 4 MA's), (30, 56724), (32, 56901),

Gene: Chewbacca_74 Start: 43089, Stop: 43388, Start Num: 25
Candidate Starts for Chewbacca_74:
(Start: 25 @43089 has 42 MA's),

Gene: Cornie_101 Start: 56005, Stop: 56292, Start Num: 27
Candidate Starts for Cornie_101:
(3, 55393), (7, 55669), (9, 55756), (11, 55783), (13, 55819), (14, 55837), (22, 55939), (Start: 27 @56005 has 5 MA's),

Gene: Duplicity_70 Start: 42451, Stop: 42750, Start Num: 25
Candidate Starts for Duplicity_70:
(Start: 25 @42451 has 42 MA's),

Gene: EGUnicorn_66 Start: 41517, Stop: 41816, Start Num: 25
Candidate Starts for EGUnicorn_66:
(Start: 25 @41517 has 42 MA's),

Gene: Fulbright_70 Start: 41910, Stop: 42209, Start Num: 25
Candidate Starts for Fulbright_70:
(Start: 25 @41910 has 42 MA's),

Gene: Gex_71 Start: 43210, Stop: 43509, Start Num: 25
Candidate Starts for Gex_71:
(Start: 25 @43210 has 42 MA's),

Gene: Gibbzilla_78 Start: 38657, Stop: 38926, Start Num: 28
Candidate Starts for Gibbzilla_78:
(28, 38657),

Gene: HC_78 Start: 45878, Stop: 46168, Start Num: 27
Candidate Starts for HC_78:
(7, 45542), (9, 45629), (11, 45656), (13, 45692), (14, 45710), (Start: 27 @45878 has 5 MA's),

Gene: Hanako_69 Start: 42101, Stop: 42409, Start Num: 25
Candidate Starts for Hanako_69:
(Start: 25 @42101 has 42 MA's),

Gene: Island3_76 Start: 46859, Stop: 47149, Start Num: 27
Candidate Starts for Island3_76:
(3, 46244), (7, 46523), (9, 46610), (11, 46637), (13, 46673), (14, 46691), (Start: 27 @46859 has 5 MA's),

Gene: Jamie19_65 Start: 40783, Stop: 41091, Start Num: 25
Candidate Starts for Jamie19_65:
(Start: 25 @40783 has 42 MA's),

Gene: JeanClaude_66 Start: 36463, Stop: 36726, Start Num: 29
Candidate Starts for JeanClaude_66:
(16, 36322), (18, 36343), (Start: 29 @36463 has 6 MA's),

Gene: Kevin1_69 Start: 41506, Stop: 41805, Start Num: 25
Candidate Starts for Kevin1_69:
(Start: 25 @41506 has 42 MA's),

Gene: Kumotta_75 Start: 39866, Stop: 40129, Start Num: 29
Candidate Starts for Kumotta_75:
(15, 39707), (17, 39734), (20, 39785), (24, 39836), (Start: 29 @39866 has 6 MA's),

Gene: Magsby_71 Start: 43156, Stop: 43455, Start Num: 25
Candidate Starts for Magsby_71:
(Start: 25 @43156 has 42 MA's),

Gene: MargaretKali_72 Start: 38623, Stop: 38889, Start Num: 29
Candidate Starts for MargaretKali_72:
(Start: 29 @38623 has 6 MA's), (33, 38875),

Gene: MichelleMyBell_70 Start: 41746, Stop: 42054, Start Num: 25
Candidate Starts for MichelleMyBell_70:
(Start: 25 @41746 has 42 MA's),

Gene: MooMoo_97 Start: 54747, Stop: 55079, Start Num: 26
Candidate Starts for MooMoo_97:
(10, 54531), (Start: 26 @54747 has 4 MA's), (34, 55065),

Gene: Nenae_70 Start: 42103, Stop: 42411, Start Num: 25
Candidate Starts for Nenae_70:
(Start: 25 @42103 has 42 MA's),

Gene: PaintedDog_77 Start: 48513, Stop: 48803, Start Num: 27
Candidate Starts for PaintedDog_77:
(7, 48177), (9, 48264), (11, 48291), (13, 48327), (14, 48345), (Start: 27 @48513 has 5 MA's),

Gene: Panchino_66 Start: 43021, Stop: 43329, Start Num: 25
Candidate Starts for Panchino_66:
(Start: 25 @43021 has 42 MA's),

Gene: Parmesanjohn_72 Start: 43214, Stop: 43513, Start Num: 25
Candidate Starts for Parmesanjohn_72:
(Start: 25 @43214 has 42 MA's),

Gene: PhancyPhin_69 Start: 41960, Stop: 42268, Start Num: 25
Candidate Starts for PhancyPhin_69:
(Start: 25 @41960 has 42 MA's),

Gene: Philonius_72 Start: 43400, Stop: 43699, Start Num: 25
Candidate Starts for Philonius_72:
(Start: 25 @43400 has 42 MA's),

Gene: Phloss_70 Start: 42621, Stop: 42920, Start Num: 25
Candidate Starts for Phloss_70:
(Start: 25 @42621 has 42 MA's),

Gene: Phrann_67 Start: 44377, Stop: 44685, Start Num: 25
Candidate Starts for Phrann_67:
(Start: 25 @44377 has 42 MA's),

Gene: Pipsqueaks_73 Start: 43192, Stop: 43491, Start Num: 25
Candidate Starts for Pipsqueaks_73:
(Start: 25 @43192 has 42 MA's),

Gene: Purgamenstris_70 Start: 42101, Stop: 42409, Start Num: 25
Candidate Starts for Purgamenstris_70:
(Start: 25 @42101 has 42 MA's),

Gene: QueenHazel_73 Start: 47625, Stop: 47915, Start Num: 26

Candidate Starts for QueenHazel_73:
(1, 46872), (2, 46899), (4, 47121), (5, 47145), (6, 47271), (8, 47325), (12, 47439), (Start: 21 @47553 has 1 MA's), (23, 47577), (Start: 26 @47625 has 4 MA's),

Gene: Raymond7_63 Start: 41889, Stop: 42197, Start Num: 25
Candidate Starts for Raymond7_63:
(Start: 25 @41889 has 42 MA's),

Gene: Rebel_66 Start: 40085, Stop: 40393, Start Num: 25
Candidate Starts for Rebel_66:
(Start: 25 @40085 has 42 MA's),

Gene: Redi_70 Start: 42100, Stop: 42408, Start Num: 25
Candidate Starts for Redi_70:
(Start: 25 @42100 has 42 MA's),

Gene: Rooter_77 Start: 38816, Stop: 39079, Start Num: 29
Candidate Starts for Rooter_77:
(Start: 29 @38816 has 6 MA's),

Gene: Rubeelu_66 Start: 41009, Stop: 41308, Start Num: 25
Candidate Starts for Rubeelu_66:
(Start: 25 @41009 has 42 MA's),

Gene: Sarge_66 Start: 35891, Stop: 36154, Start Num: 29
Candidate Starts for Sarge_66:
(Start: 29 @35891 has 6 MA's),

Gene: Sbash_89 Start: 55345, Stop: 55713, Start Num: 21
Candidate Starts for Sbash_89:
(Start: 21 @55345 has 1 MA's), (23, 55369), (Start: 26 @55417 has 4 MA's), (30, 55495), (32, 55672),

Gene: Schnauzer_74 Start: 43214, Stop: 43513, Start Num: 25
Candidate Starts for Schnauzer_74:
(Start: 25 @43214 has 42 MA's),

Gene: Scitech_67 Start: 42617, Stop: 42916, Start Num: 25
Candidate Starts for Scitech_67:
(Start: 25 @42617 has 42 MA's),

Gene: Shoya_67 Start: 37457, Stop: 37720, Start Num: 29
Candidate Starts for Shoya_67:
(17, 37322), (19, 37370), (Start: 29 @37457 has 6 MA's),

Gene: ShrimpFriedEgg_70 Start: 42100, Stop: 42408, Start Num: 25
Candidate Starts for ShrimpFriedEgg_70:
(Start: 25 @42100 has 42 MA's),

Gene: Shweta_66 Start: 42196, Stop: 42504, Start Num: 25
Candidate Starts for Shweta_66:
(Start: 25 @42196 has 42 MA's),

Gene: Silvafighter_74 Start: 42757, Stop: 43056, Start Num: 25

Candidate Starts for Silvafighter_74:
(Start: 25 @42757 has 42 MA's),

Gene: Silvy_68 Start: 43847, Stop: 44146, Start Num: 25
Candidate Starts for Silvy_68:
(Start: 25 @43847 has 42 MA's),

Gene: Smurph_72 Start: 43214, Stop: 43513, Start Num: 25
Candidate Starts for Smurph_72:
(Start: 25 @43214 has 42 MA's),

Gene: Spinach_69 Start: 42100, Stop: 42408, Start Num: 25
Candidate Starts for Spinach_69:
(Start: 25 @42100 has 42 MA's),

Gene: SpongeBob_65 Start: 40783, Stop: 41091, Start Num: 25
Candidate Starts for SpongeBob_65:
(Start: 25 @40783 has 42 MA's),

Gene: Stuck_87 Start: 54724, Stop: 55017, Start Num: 26
Candidate Starts for Stuck_87:
(Start: 21 @54655 has 1 MA's), (23, 54679), (Start: 26 @54724 has 4 MA's), (30, 54799), (32, 54976),

Gene: Tapioca_70 Start: 43719, Stop: 44018, Start Num: 25
Candidate Starts for Tapioca_70:
(Start: 25 @43719 has 42 MA's),

Gene: Tessdabest_72 Start: 43348, Stop: 43647, Start Num: 25
Candidate Starts for Tessdabest_72:
(Start: 25 @43348 has 42 MA's),

Gene: Tortoise12_72 Start: 42203, Stop: 42502, Start Num: 25
Candidate Starts for Tortoise12_72:
(Start: 25 @42203 has 42 MA's),

Gene: Xeno_69 Start: 41900, Stop: 42208, Start Num: 25
Candidate Starts for Xeno_69:
(Start: 25 @41900 has 42 MA's),

Gene: Xerxes_72 Start: 43211, Stop: 43510, Start Num: 25
Candidate Starts for Xerxes_72:
(Start: 25 @43211 has 42 MA's),

Gene: Xula_74 Start: 48112, Stop: 48402, Start Num: 26
Candidate Starts for Xula_74:
(1, 47359), (2, 47386), (4, 47608), (5, 47632), (6, 47758), (8, 47812), (12, 47926), (Start: 21 @48040 has 1 MA's), (23, 48064), (Start: 26 @48112 has 4 MA's),