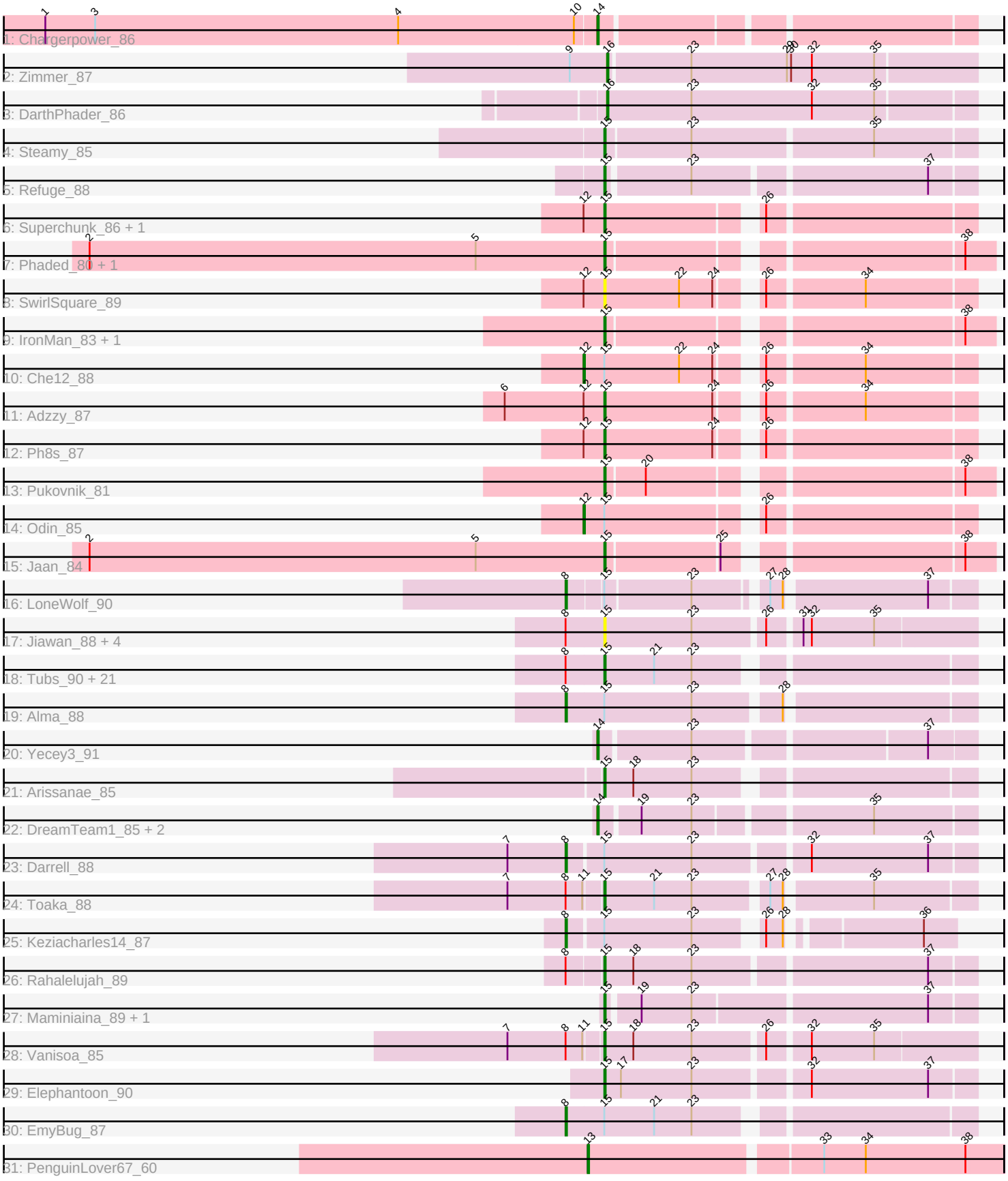
Pham 196548


1: Chargerpower_86
2: Zimmer_87
3: DarthPhader_86
4: Steamy_85
5: Refuge_88
6: Superchunk_86 + 1
7: Phaded_80 + 1
8: SwirlSquare_89
9: IronMan_83 + 1
10: Che12_88
11: Adzzy_87
12: Ph8s_87
13: Pukovnik_81
14: Odin_85
15: Jaan_84
16: LoneWolf_90
17: Jiawan_88 + 4
18: Tubs_90 + 21
19: Alma_88
20: Yecey3_91
21: Arissanae_85
22: DreamTeam1_85 + 2
23: Darrell_88
24: Toaka_88
25: Keziacharles14_87
26: Rahalelujah_89
27: Maminiaina_89 + 1
28: Vanisoa_85
29: Elephantoon_90
30: EmyBug_87
31: PenguinLover67_60

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 196548 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196548 has 62 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Chargerpower_86
- Track 2 : Zimmer_87
- Track 3 : DarthPhader_86
- Track 4 : Steamy_85
- Track 5 : Refuge_88
- Track 6 : Superchunk_86, Caraxes_87
- Track 7 : Phaded_80, Bactobuster_78
- Track 8 : SwirlSquare_89
- Track 9 : IronMan_83, Landor_84
- Track 10 : Che12_88
- Track 11 : Adzzy_87
- Track 12 : Ph8s_87
- Track 13 : Pukovnik_81
- Track 14 : Odin_85
- Track 15 : Jaan_84
- Track 16 : LoneWolf_90
- Track 17 : Jiawan_88, Hanray_88, RyeScarlet_91, Holex_89, Onglai_88
- Track 18 : Tubs_90, Aliter_83, Ugenie5_77, Eidsmoe_88, Beemo_90, Sachima_86, Conquerage_88, EdogawaKiddo_89, Phaeder_90, Catalina_92, HortumSL17_91, Phonnegut_90, Qobbit_88, Myxus_90, PackMan_85, ExplosioNervosa_88, Priya_88, Pioneer_90, Lilleskat_87, Scherzo_88, Fayely_88, Spouty_88
- Track 19 : Alma_88
- Track 20 : Yecey3_91
- Track 21 : Arissanae_85
- Track 22 : DreamTeam1_85, SheaKeira_85, Charm_85
- Track 23 : Darrell_88
- Track 24 : Toaka_88
- Track 25 : Keziacharles14_87
- Track 26 : Rahalelujah_89
- Track 27 : Maminiaina_89, BogosyJay_89
- Track 28 : Vanisoa_85
- Track 29 : Elephantoon_90
- Track 30 : EmyBug_87
- Track 31 : PenguinLover67_60

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

The start number called the most often in the published annotations is 15, it was called in 37 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adzzy_87, Aliter_83, Arissanae_85, Bactobuster_78, Beemo_90, BogosyJay_89, Caraxes_87, Catalina_92, Conquerage_88, EdogawaKiddo_89, Eidsmoe_88, Elephantoon_90, ExplosioNervosa_88, Fayely_88, Hanray_88, Holex_89, HortumSL17_91, IronMan_83, Jaan_84, Jiawan_88, Landor_84, Lilleskat_87, Maminiaina_89, Myxus_90, Onglai_88, PackMan_85, Ph8s_87, Phaded_80, Phaeder_90, Phonnegut_90, Pioneer_90, Priya_88, Pukovnik_81, Qobbit_88, Rahalelujah_89, Refuge_88, RyeScarlet_91, Sachima_86, Scherzo_88, Spouty_88, Steamy_85, Superchunk_86, SwirlSquare_89, Toaka_88, Tubs_90, Ugenie5_77, Vanisoa_85,

Genes that have the "Most Annotated" start but do not call it:
• Alma_88, Che12_88, Darrell_88, EmyBug_87, Keziacharles14_87, LoneWolf_90, Odin_85,

Genes that do not have the "Most Annotated" start:
• Chargerpower_86, Charm_85, DarthPhader_86, DreamTeam1_85, PenguinLover67_60, SheaKeira_85, Yecey3_91, Zimmer_87,

Summary by start number:

Start 8:
• Found in 35 of 62 (56.5%) of genes in pham
• Manual Annotations of this start: 5 of 52
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Alma_88 (A9), Darrell_88 (A9), EmyBug_87 (A9), Keziacharles14_87 (A9), LoneWolf_90 (A9),

Start 12:
• Found in 7 of 62 (11.3%) of genes in pham
• Manual Annotations of this start: 2 of 52
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Che12_88 (A2), Odin_85 (A2),

Start 13:
• Found in 1 of 62 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PenguinLover67_60 (B9),

Start 14:
• Found in 5 of 62 (8.1%) of genes in pham
• Manual Annotations of this start: 5 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chargerpower_86 (A), Charm_85 (A9), DreamTeam1_85 (A9), SheaKeira_85 (A9), Yecey3_91 (A9),

Start 15:
• Found in 54 of 62 (87.1%) of genes in pham
• Manual Annotations of this start: 37 of 52
• Called 87.0% of time when present
• Phage (with cluster) where this start called: Adzzy_87 (A2), Aliter_83 (A9), Arissanae_85 (A9), Bactobuster_78 (A2), Beemo_90 (A9), BogosyJay_89 (A9), Caraxes_87 (A2), Catalina_92 (A9), Conquerage_88 (A9), EdogawaKiddo_89 (A9), Eidsmoe_88 (A9), Elephantoon_90 (A9), ExplosioNervosa_88 (A9), Fayely_88 (A9), Hanray_88 (A9), Holex_89 (A9), HortumSL17_91 (A9), IronMan_83 (A2), Jaan_84 (A2), Jiawan_88 (A9), Landor_84 (A2), Lilleskat_87 (A9), Maminiaina_89 (A9), Myxus_90 (A9), Onglai_88 (A9), PackMan_85 (A9), Ph8s_87 (A2), Phaded_80 (A2), Phaeder_90 (A9), Phonnegut_90 (A9), Pioneer_90 (A9), Priya_88 (A9), Pukovnik_81 (A2), Qobbit_88 (A9), Rahalelujah_89 (A9), Refuge_88 (A12), RyeScarlet_91 (A9), Sachima_86 (A9), Scherzo_88 (A9), Spouty_88 (A9), Steamy_85 (A12), Superchunk_86 (A2), SwirlSquare_89 (A2), Toaka_88 (A9), Tubs_90 (A9), Ugenie5_77 (A9), Vanisoa_85 (A9),

Start 16:
• Found in 2 of 62 (3.2%) of genes in pham
• Manual Annotations of this start: 2 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DarthPhader_86 (A12), Zimmer_87 (A12),

Summary by clusters:

There are 5 clusters represented in this pham: A9, A, A2, B9, A12,

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

Info for manual annotations of cluster A12:
•Start number 15 was manually annotated 2 times for cluster A12.
•Start number 16 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A2:
•Start number 12 was manually annotated 2 times for cluster A2.
•Start number 15 was manually annotated 9 times for cluster A2.

Info for manual annotations of cluster A9:
•Start number 8 was manually annotated 5 times for cluster A9.
•Start number 14 was manually annotated 4 times for cluster A9.
•Start number 15 was manually annotated 26 times for cluster A9.

Info for manual annotations of cluster B9:
•Start number 13 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Adzzy_87 Start: 47625, Stop: 47383, Start Num: 15
Candidate Starts for Adzzy_87:

(6, 47697), (Start: 12 @47640 has 2 MA's), (Start: 15 @47625 has 37 MA's), (24, 47547), (26, 47526), (34, 47460),

Gene: Aliter_83 Start: 46251, Stop: 46006, Start Num: 15
Candidate Starts for Aliter_83:
(Start: 8 @46278 has 5 MA's), (Start: 15 @46251 has 37 MA's), (21, 46215), (23, 46188),

Gene: Alma_88 Start: 49120, Stop: 48845, Start Num: 8
Candidate Starts for Alma_88:
(Start: 8 @49120 has 5 MA's), (Start: 15 @49093 has 37 MA's), (23, 49030), (28, 48973),

Gene: Arissanae_85 Start: 48962, Stop: 48717, Start Num: 15
Candidate Starts for Arissanae_85:
(Start: 15 @48962 has 37 MA's), (18, 48941), (23, 48899),

Gene: Bactobuster_78 Start: 47603, Stop: 47352, Start Num: 15
Candidate Starts for Bactobuster_78:
(2, 47975), (5, 47696), (Start: 15 @47603 has 37 MA's), (38, 47372),

Gene: Beemo_90 Start: 49084, Stop: 48839, Start Num: 15
Candidate Starts for Beemo_90:
(Start: 8 @49111 has 5 MA's), (Start: 15 @49084 has 37 MA's), (21, 49048), (23, 49021),

Gene: BogosyJay_89 Start: 49135, Stop: 48884, Start Num: 15
Candidate Starts for BogosyJay_89:
(Start: 15 @49135 has 37 MA's), (19, 49114), (23, 49078), (37, 48916),

Gene: Caraxes_87 Start: 47583, Stop: 47341, Start Num: 15
Candidate Starts for Caraxes_87:
(Start: 12 @47598 has 2 MA's), (Start: 15 @47583 has 37 MA's), (26, 47484),

Gene: Catalina_92 Start: 49198, Stop: 48953, Start Num: 15
Candidate Starts for Catalina_92:
(Start: 8 @49225 has 5 MA's), (Start: 15 @49198 has 37 MA's), (21, 49162), (23, 49135),

Gene: Chargerpower_86 Start: 47145, Stop: 46894, Start Num: 14
Candidate Starts for Chargerpower_86:
(1, 47541), (3, 47505), (4, 47286), (10, 47160), (Start: 14 @47145 has 5 MA's),

Gene: Charm_85 Start: 48488, Stop: 48237, Start Num: 14
Candidate Starts for Charm_85:
(Start: 14 @48488 has 5 MA's), (19, 48461), (23, 48425), (35, 48308),

Gene: Che12_88 Start: 47719, Stop: 47462, Start Num: 12
Candidate Starts for Che12_88:
(Start: 12 @47719 has 2 MA's), (Start: 15 @47704 has 37 MA's), (22, 47650), (24, 47626), (26, 47605), (34, 47539),

Gene: Conquerage_88 Start: 48859, Stop: 48614, Start Num: 15
Candidate Starts for Conquerage_88:
(Start: 8 @48886 has 5 MA's), (Start: 15 @48859 has 37 MA's), (21, 48823), (23, 48796),

Gene: Darrell_88 Start: 48317, Stop: 48039, Start Num: 8

Candidate Starts for Darrell_88:
(7, 48359), (Start: 8 @48317 has 5 MA's), (Start: 15 @48293 has 37 MA's), (23, 48230), (32, 48155), (37, 48071),

Gene: DarthPhader_86 Start: 50000, Stop: 49740, Start Num: 16
Candidate Starts for DarthPhader_86:
(Start: 16 @50000 has 2 MA's), (23, 49940), (32, 49853), (35, 49808),

Gene: DreamTeam1_85 Start: 48336, Stop: 48085, Start Num: 14
Candidate Starts for DreamTeam1_85:
(Start: 14 @48336 has 5 MA's), (19, 48309), (23, 48273), (35, 48156),

Gene: EdogawaKiddo_89 Start: 49161, Stop: 48916, Start Num: 15
Candidate Starts for EdogawaKiddo_89:
(Start: 8 @49188 has 5 MA's), (Start: 15 @49161 has 37 MA's), (21, 49125), (23, 49098),

Gene: Eidsmoe_88 Start: 48852, Stop: 48607, Start Num: 15
Candidate Starts for Eidsmoe_88:
(Start: 8 @48879 has 5 MA's), (Start: 15 @48852 has 37 MA's), (21, 48816), (23, 48789),

Gene: Elephantoon_90 Start: 49016, Stop: 48762, Start Num: 15
Candidate Starts for Elephantoon_90:
(Start: 15 @49016 has 37 MA's), (17, 49004), (23, 48953), (32, 48878), (37, 48794),

Gene: EmyBug_87 Start: 48881, Stop: 48609, Start Num: 8
Candidate Starts for EmyBug_87:
(Start: 8 @48881 has 5 MA's), (Start: 15 @48854 has 37 MA's), (21, 48818), (23, 48791),

Gene: ExplosioNervosa_88 Start: 48920, Stop: 48675, Start Num: 15
Candidate Starts for ExplosioNervosa_88:
(Start: 8 @48947 has 5 MA's), (Start: 15 @48920 has 37 MA's), (21, 48884), (23, 48857),

Gene: Fayely_88 Start: 48828, Stop: 48583, Start Num: 15
Candidate Starts for Fayely_88:
(Start: 8 @48855 has 5 MA's), (Start: 15 @48828 has 37 MA's), (21, 48792), (23, 48765),

Gene: Hanray_88 Start: 49149, Stop: 48895, Start Num: 15
Candidate Starts for Hanray_88:
(Start: 8 @49176 has 5 MA's), (Start: 15 @49149 has 37 MA's), (23, 49086), (26, 49038), (31, 49017), (32, 49011), (35, 48966),

Gene: Holex_89 Start: 49162, Stop: 48908, Start Num: 15
Candidate Starts for Holex_89:
(Start: 8 @49189 has 5 MA's), (Start: 15 @49162 has 37 MA's), (23, 49099), (26, 49051), (31, 49030), (32, 49024), (35, 48979),

Gene: HortumSL17_91 Start: 49196, Stop: 48951, Start Num: 15
Candidate Starts for HortumSL17_91:
(Start: 8 @49223 has 5 MA's), (Start: 15 @49196 has 37 MA's), (21, 49160), (23, 49133),

Gene: IronMan_83 Start: 49127, Stop: 48876, Start Num: 15
Candidate Starts for IronMan_83:
(Start: 15 @49127 has 37 MA's), (38, 48896),

Gene: Jaan_84 Start: 49235, Stop: 48984, Start Num: 15
Candidate Starts for Jaan_84:
(2, 49607), (5, 49328), (Start: 15 @49235 has 37 MA's), (25, 49157), (38, 49004),

Gene: Jiawan_88 Start: 49179, Stop: 48925, Start Num: 15
Candidate Starts for Jiawan_88:
(Start: 8 @49206 has 5 MA's), (Start: 15 @49179 has 37 MA's), (23, 49116), (26, 49068), (31, 49047), (32, 49041), (35, 48996),

Gene: Keziacharles14_87 Start: 49677, Stop: 49432, Start Num: 8
Candidate Starts for Keziacharles14_87:
(Start: 8 @49677 has 5 MA's), (Start: 15 @49653 has 37 MA's), (23, 49590), (26, 49551), (28, 49539), (36, 49455),

Gene: Landor_84 Start: 49160, Stop: 48909, Start Num: 15
Candidate Starts for Landor_84:
(Start: 15 @49160 has 37 MA's), (38, 48929),

Gene: Lilleskat_87 Start: 49150, Stop: 48905, Start Num: 15
Candidate Starts for Lilleskat_87:
(Start: 8 @49177 has 5 MA's), (Start: 15 @49150 has 37 MA's), (21, 49114), (23, 49087),

Gene: LoneWolf_90 Start: 49212, Stop: 48946, Start Num: 8
Candidate Starts for LoneWolf_90:
(Start: 8 @49212 has 5 MA's), (Start: 15 @49188 has 37 MA's), (23, 49128), (27, 49083), (28, 49074), (37, 48978),

Gene: Maminiaina_89 Start: 49117, Stop: 48866, Start Num: 15
Candidate Starts for Maminiaina_89:
(Start: 15 @49117 has 37 MA's), (19, 49096), (23, 49060), (37, 48898),

Gene: Myxus_90 Start: 49196, Stop: 48951, Start Num: 15
Candidate Starts for Myxus_90:
(Start: 8 @49223 has 5 MA's), (Start: 15 @49196 has 37 MA's), (21, 49160), (23, 49133),

Gene: Odin_85 Start: 48071, Stop: 47814, Start Num: 12
Candidate Starts for Odin_85:
(Start: 12 @48071 has 2 MA's), (Start: 15 @48056 has 37 MA's), (26, 47957),

Gene: Onglai_88 Start: 47351, Stop: 47097, Start Num: 15
Candidate Starts for Onglai_88:
(Start: 8 @47378 has 5 MA's), (Start: 15 @47351 has 37 MA's), (23, 47288), (26, 47240), (31, 47219), (32, 47213), (35, 47168),

Gene: PackMan_85 Start: 47110, Stop: 46865, Start Num: 15
Candidate Starts for PackMan_85:
(Start: 8 @47137 has 5 MA's), (Start: 15 @47110 has 37 MA's), (21, 47074), (23, 47047),

Gene: PenguinLover67_60 Start: 56278, Stop: 55991, Start Num: 13
Candidate Starts for PenguinLover67_60:
(Start: 13 @56278 has 1 MA's), (33, 56119), (34, 56089), (38, 56017),

Gene: Ph8s_87 Start: 47838, Stop: 47596, Start Num: 15
Candidate Starts for Ph8s_87:
(Start: 12 @47853 has 2 MA's), (Start: 15 @47838 has 37 MA's), (24, 47760), (26, 47739),

Gene: Phaded_80 Start: 49118, Stop: 48867, Start Num: 15
Candidate Starts for Phaded_80:
(2, 49490), (5, 49211), (Start: 15 @49118 has 37 MA's), (38, 48887),

Gene: Phaeder_90 Start: 49071, Stop: 48826, Start Num: 15
Candidate Starts for Phaeder_90:
(Start: 8 @49098 has 5 MA's), (Start: 15 @49071 has 37 MA's), (21, 49035), (23, 49008),

Gene: Phonnegut_90 Start: 49083, Stop: 48838, Start Num: 15
Candidate Starts for Phonnegut_90:
(Start: 8 @49110 has 5 MA's), (Start: 15 @49083 has 37 MA's), (21, 49047), (23, 49020),

Gene: Pioneer_90 Start: 49083, Stop: 48838, Start Num: 15
Candidate Starts for Pioneer_90:
(Start: 8 @49110 has 5 MA's), (Start: 15 @49083 has 37 MA's), (21, 49047), (23, 49020),

Gene: Priya_88 Start: 48855, Stop: 48610, Start Num: 15
Candidate Starts for Priya_88:
(Start: 8 @48882 has 5 MA's), (Start: 15 @48855 has 37 MA's), (21, 48819), (23, 48792),

Gene: Pukovnik_81 Start: 48588, Stop: 48337, Start Num: 15
Candidate Starts for Pukovnik_81:
(Start: 15 @48588 has 37 MA's), (20, 48561), (38, 48357),

Gene: Qobbit_88 Start: 48817, Stop: 48572, Start Num: 15
Candidate Starts for Qobbit_88:
(Start: 8 @48844 has 5 MA's), (Start: 15 @48817 has 37 MA's), (21, 48781), (23, 48754),

Gene: Rahalelujah_89 Start: 48618, Stop: 48364, Start Num: 15
Candidate Starts for Rahalelujah_89:
(Start: 8 @48642 has 5 MA's), (Start: 15 @48618 has 37 MA's), (18, 48597), (23, 48555), (37, 48396),

Gene: Refuge_88 Start: 50832, Stop: 50584, Start Num: 15
Candidate Starts for Refuge_88:
(Start: 15 @50832 has 37 MA's), (23, 50775), (37, 50616),

Gene: RyeScarlet_91 Start: 49069, Stop: 48815, Start Num: 15
Candidate Starts for RyeScarlet_91:
(Start: 8 @49096 has 5 MA's), (Start: 15 @49069 has 37 MA's), (23, 49006), (26, 48958), (31, 48937), (32, 48931), (35, 48886),

Gene: Sachima_86 Start: 49098, Stop: 48853, Start Num: 15
Candidate Starts for Sachima_86:
(Start: 8 @49125 has 5 MA's), (Start: 15 @49098 has 37 MA's), (21, 49062), (23, 49035),

Gene: Scherzo_88 Start: 49115, Stop: 48870, Start Num: 15
Candidate Starts for Scherzo_88:
(Start: 8 @49142 has 5 MA's), (Start: 15 @49115 has 37 MA's), (21, 49079), (23, 49052),

Gene: SheaKeira_85 Start: 48361, Stop: 48110, Start Num: 14
Candidate Starts for SheaKeira_85:
(Start: 14 @48361 has 5 MA's), (19, 48334), (23, 48298), (35, 48181),

Gene: Spouty_88 Start: 48854, Stop: 48609, Start Num: 15
Candidate Starts for Spouty_88:
(Start: 8 @48881 has 5 MA's), (Start: 15 @48854 has 37 MA's), (21, 48818), (23, 48791),

Gene: Steamy_85 Start: 49811, Stop: 49554, Start Num: 15
Candidate Starts for Steamy_85:
(Start: 15 @49811 has 37 MA's), (23, 49751), (35, 49625),

Gene: Superchunk_86 Start: 47583, Stop: 47341, Start Num: 15
Candidate Starts for Superchunk_86:
(Start: 12 @47598 has 2 MA's), (Start: 15 @47583 has 37 MA's), (26, 47484),

Gene: SwirlSquare_89 Start: 47313, Stop: 47071, Start Num: 15
Candidate Starts for SwirlSquare_89:
(Start: 12 @47328 has 2 MA's), (Start: 15 @47313 has 37 MA's), (22, 47259), (24, 47235), (26, 47214), (34, 47148),

Gene: Toaka_88 Start: 48957, Stop: 48709, Start Num: 15
Candidate Starts for Toaka_88:
(7, 49023), (Start: 8 @48981 has 5 MA's), (11, 48969), (Start: 15 @48957 has 37 MA's), (21, 48921), (23, 48894), (27, 48846), (28, 48837), (35, 48780),

Gene: Tubs_90 Start: 49071, Stop: 48826, Start Num: 15
Candidate Starts for Tubs_90:
(Start: 8 @49098 has 5 MA's), (Start: 15 @49071 has 37 MA's), (21, 49035), (23, 49008),

Gene: Ugenie5_77 Start: 46559, Stop: 46314, Start Num: 15
Candidate Starts for Ugenie5_77:
(Start: 8 @46586 has 5 MA's), (Start: 15 @46559 has 37 MA's), (21, 46523), (23, 46496),

Gene: Vanisoa_85 Start: 49296, Stop: 49042, Start Num: 15
Candidate Starts for Vanisoa_85:
(7, 49362), (Start: 8 @49320 has 5 MA's), (11, 49308), (Start: 15 @49296 has 37 MA's), (18, 49275), (23, 49233), (26, 49185), (32, 49158), (35, 49113),

Gene: Yecey3_91 Start: 48834, Stop: 48583, Start Num: 14
Candidate Starts for Yecey3_91:
(Start: 14 @48834 has 5 MA's), (23, 48771), (37, 48615),

Gene: Zimmer_87 Start: 50279, Stop: 50019, Start Num: 16
Candidate Starts for Zimmer_87:
(9, 50306), (Start: 16 @50279 has 2 MA's), (23, 50222), (29, 50153), (30, 50150), (32, 50135), (35, 50090),