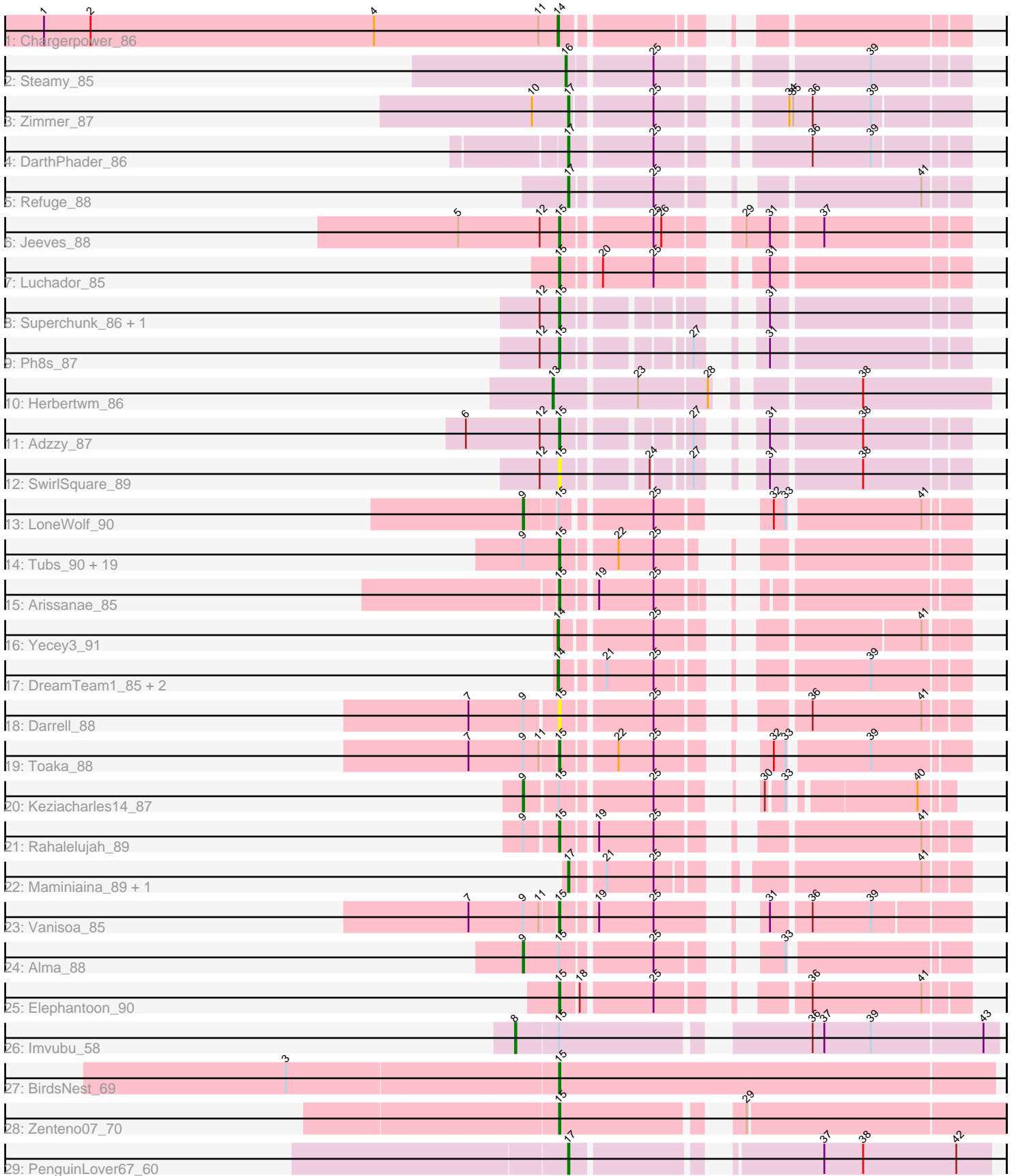


Pham 163656



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 163656 Report

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

Pham number 163656 has 52 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_86
- Track 2 : Steamy_85
- Track 3 : Zimmer_87
- Track 4 : DarthPhader_86
- Track 5 : Refuge_88
- Track 6 : Jeeves_88
- Track 7 : Luchador_85
- Track 8 : Superchunk_86, Caraxes_87
- Track 9 : Ph8s_87
- Track 10 : Herbertwm_86
- Track 11 : Adzzy_87
- Track 12 : SwirlSquare_89
- Track 13 : LoneWolf_90
- Track 14 : Tubs_90, Ugenie5_77, Eidsmoe_88, Beemo_90, Conquerage_88, Phaeder_90, Catalina_92, HortumSL17_91, Phonnegut_90, Qobbit_88, Myxus_90, PackMan_85, EmyBug_84, ExplosioNervosa_88, Priya_88, Pioneer_90, Aliter_83, Scherzo_88, Fayely_88, Spouty_85
- Track 15 : Arissanae_85
- Track 16 : Yecey3_91
- Track 17 : DreamTeam1_85, SheaKeira_85, Charm_85
- Track 18 : Darrell_88
- Track 19 : Toaka_88
- Track 20 : Keziacharles14_87
- Track 21 : Rahalelujah_89
- Track 22 : Maminiaina_89, BogosyJay_89
- Track 23 : Vanisoa_85
- Track 24 : Alma_88
- Track 25 : Elephantoon_90
- Track 26 : Imvubu_58
- Track 27 : BirdsNest_69
- Track 28 : Zenteno07_70
- Track 29 : 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 30 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adzzy_87, Aliter_83, Arissanae_85, Beemo_90, BirdsNest_69, Caraxes_87, Catalina_92, Conquerage_88, Darrell_88, Eidsmoe_88, Elephantoon_90, EmyBug_84, ExplosioNervosa_88, Fayely_88, HortumSL17_91, Jeeves_88, Luchador_85, Myxus_90, PackMan_85, Ph8s_87, Phaeder_90, Phonnegut_90, Pioneer_90, Priya_88, Qobbit_88, Rahalelujah_89, Scherzo_88, Spouty_85, Superchunk_86, SwirlSquare_89, Toaka_88, Tubs_90, Ugenie5_77, Vanisoa_85, Zenteno07_70,

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

- Alma_88, Imvubu_58, Keziacharles14_87, LoneWolf_90,

Genes that do not have the "Most Annotated" start:

- BogosyJay_89, Chargerpower_86, Charm_85, DarthPhader_86, DreamTeam1_85, Herbertwm_86, Maminiaina_89, PenguinLover67_60, Refuge_88, SheaKeira_85, Steamy_85, Yecey3_91, Zimmer_87,

Summary by start number:

Start 8:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu_58 (B10),

Start 9:

- Found in 27 of 52 (51.9%) of genes in pham
- Manual Annotations of this start: 3 of 47
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Alma_88 (A9), Keziacharles14_87 (A9), LoneWolf_90 (A9),

Start 13:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm_86 (A2),

Start 14:

- Found in 5 of 52 (9.6%) of genes in pham
- Manual Annotations of this start: 5 of 47
- 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 39 of 52 (75.0%) of genes in pham
- Manual Annotations of this start: 30 of 47
- Called 89.7% of time when present

- Phage (with cluster) where this start called: Adzzy_87 (A2), Aliter_83 (A9), Arissanae_85 (A9), Beemo_90 (A9), BirdsNest_69 (B13), Caraxes_87 (A2), Catalina_92 (A9), Conquerage_88 (A9), Darrell_88 (A9), Eidsmoe_88 (A9), Elephantoon_90 (A9), EmyBug_84 (A9), ExplosioNervosa_88 (A9), Fayely_88 (A9), HortumSL17_91 (A9), Jeeves_88 (A14), Luchador_85 (A14), Myxus_90 (A9), PackMan_85 (A9), Ph8s_87 (A2), Phaeder_90 (A9), Phonnegut_90 (A9), Pioneer_90 (A9), Priya_88 (A9), Qobbit_88 (A9), Rahalelujah_89 (A9), Scherzo_88 (A9), Spouty_85 (A9), Superchunk_86 (A2), SwirlSquare_89 (A2), Toaka_88 (A9), Tubs_90 (A9), Ugenie5_77 (A9), Vanisoa_85 (A9), Zenteno07_70 (B13),

Start 16:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Steamy_85 (A12),

Start 17:

- Found in 6 of 52 (11.5%) of genes in pham
- Manual Annotations of this start: 6 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BogosyJay_89 (A9), DARTHPhader_86 (A12), Maminiaina_89 (A9), PenguinLover67_60 (B9), Refuge_88 (A12), Zimmer_87 (A12),

Summary by clusters:

There are 8 clusters represented in this pham: A, A14, A12, A2, B13, B10, A9, B9,

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 16 was manually annotated 1 time for cluster A12.
- Start number 17 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 15 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 13 was manually annotated 1 time for cluster A2.
- Start number 15 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A9:

- Start number 9 was manually annotated 3 times for cluster A9.
- Start number 14 was manually annotated 4 times for cluster A9.
- Start number 15 was manually annotated 23 times for cluster A9.
- Start number 17 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster B10:

- Start number 8 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:

- Start number 15 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B9:

•Start number 17 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), (12, 47640), (Start: 15 @47625 has 30 MA's), (27, 47547), (31, 47526), (38, 47460),

Gene: Aliter_83 Start: 46251, Stop: 46006, Start Num: 15

Candidate Starts for Aliter_83:

(Start: 9 @46278 has 3 MA's), (Start: 15 @46251 has 30 MA's), (22, 46215), (25, 46188),

Gene: Alma_88 Start: 49120, Stop: 48845, Start Num: 9

Candidate Starts for Alma_88:

(Start: 9 @49120 has 3 MA's), (Start: 15 @49093 has 30 MA's), (25, 49030), (33, 48973),

Gene: Arissanae_85 Start: 48962, Stop: 48717, Start Num: 15

Candidate Starts for Arissanae_85:

(Start: 15 @48962 has 30 MA's), (19, 48941), (25, 48899),

Gene: Beemo_90 Start: 49084, Stop: 48839, Start Num: 15

Candidate Starts for Beemo_90:

(Start: 9 @49111 has 3 MA's), (Start: 15 @49084 has 30 MA's), (22, 49048), (25, 49021),

Gene: BirdsNest_69 Start: 56932, Stop: 56600, Start Num: 15

Candidate Starts for BirdsNest_69:

(3, 57136), (Start: 15 @56932 has 30 MA's),

Gene: BogosyJay_89 Start: 49135, Stop: 48884, Start Num: 17

Candidate Starts for BogosyJay_89:

(Start: 17 @49135 has 6 MA's), (21, 49114), (25, 49078), (41, 48916),

Gene: Caraxes_87 Start: 47583, Stop: 47341, Start Num: 15

Candidate Starts for Caraxes_87:

(12, 47598), (Start: 15 @47583 has 30 MA's), (31, 47484),

Gene: Catalina_92 Start: 49198, Stop: 48953, Start Num: 15

Candidate Starts for Catalina_92:

(Start: 9 @49225 has 3 MA's), (Start: 15 @49198 has 30 MA's), (22, 49162), (25, 49135),

Gene: Chargerpower_86 Start: 47145, Stop: 46894, Start Num: 14

Candidate Starts for Chargerpower_86:

(1, 47541), (2, 47505), (4, 47286), (11, 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), (21, 48461), (25, 48425), (39, 48308),

Gene: Conquerage_88 Start: 48859, Stop: 48614, Start Num: 15

Candidate Starts for Conquerage_88:

(Start: 9 @48886 has 3 MA's), (Start: 15 @48859 has 30 MA's), (22, 48823), (25, 48796),

Gene: Darrell_88 Start: 48293, Stop: 48039, Start Num: 15

Candidate Starts for Darrell_88:

(7, 48359), (Start: 9 @48317 has 3 MA's), (Start: 15 @48293 has 30 MA's), (25, 48230), (36, 48155), (41, 48071),

Gene: DarthPhader_86 Start: 50000, Stop: 49740, Start Num: 17

Candidate Starts for DarthPhader_86:

(Start: 17 @50000 has 6 MA's), (25, 49940), (36, 49853), (39, 49808),

Gene: DreamTeam1_85 Start: 48336, Stop: 48085, Start Num: 14

Candidate Starts for DreamTeam1_85:

(Start: 14 @48336 has 5 MA's), (21, 48309), (25, 48273), (39, 48156),

Gene: Eidsmoe_88 Start: 48852, Stop: 48607, Start Num: 15

Candidate Starts for Eidsmoe_88:

(Start: 9 @48879 has 3 MA's), (Start: 15 @48852 has 30 MA's), (22, 48816), (25, 48789),

Gene: Elephantoon_90 Start: 49016, Stop: 48762, Start Num: 15

Candidate Starts for Elephantoon_90:

(Start: 15 @49016 has 30 MA's), (18, 49004), (25, 48953), (36, 48878), (41, 48794),

Gene: EmyBug_84 Start: 48854, Stop: 48609, Start Num: 15

Candidate Starts for EmyBug_84:

(Start: 9 @48881 has 3 MA's), (Start: 15 @48854 has 30 MA's), (22, 48818), (25, 48791),

Gene: ExplosioNervosa_88 Start: 48920, Stop: 48675, Start Num: 15

Candidate Starts for ExplosioNervosa_88:

(Start: 9 @48947 has 3 MA's), (Start: 15 @48920 has 30 MA's), (22, 48884), (25, 48857),

Gene: Fayely_88 Start: 48828, Stop: 48583, Start Num: 15

Candidate Starts for Fayely_88:

(Start: 9 @48855 has 3 MA's), (Start: 15 @48828 has 30 MA's), (22, 48792), (25, 48765),

Gene: Herbertwm_86 Start: 49248, Stop: 48952, Start Num: 13

Candidate Starts for Herbertwm_86:

(Start: 13 @49248 has 1 MA's), (23, 49188), (28, 49137), (38, 49050),

Gene: HortumSL17_91 Start: 49196, Stop: 48951, Start Num: 15

Candidate Starts for HortumSL17_91:

(Start: 9 @49223 has 3 MA's), (Start: 15 @49196 has 30 MA's), (22, 49160), (25, 49133),

Gene: Imvubu_58 Start: 54802, Stop: 54467, Start Num: 8

Candidate Starts for Imvubu_58:

(Start: 8 @54802 has 1 MA's), (Start: 15 @54772 has 30 MA's), (36, 54607), (37, 54598), (39, 54562), (43, 54478),

Gene: Jeeves_88 Start: 47130, Stop: 46858, Start Num: 15

Candidate Starts for Jeeves_88:

(5, 47208), (12, 47145), (Start: 15 @47130 has 30 MA's), (25, 47067), (26, 47061), (29, 47019), (31, 47001), (37, 46965),

Gene: Keziacharles14_87 Start: 49677, Stop: 49432, Start Num: 9
Candidate Starts for Keziacharles14_87:
(Start: 9 @49677 has 3 MA's), (Start: 15 @49653 has 30 MA's), (25, 49590), (30, 49551), (33, 49539),
(40, 49455),

Gene: LoneWolf_90 Start: 49212, Stop: 48946, Start Num: 9
Candidate Starts for LoneWolf_90:
(Start: 9 @49212 has 3 MA's), (Start: 15 @49188 has 30 MA's), (25, 49128), (32, 49083), (33, 49074),
(41, 48978),

Gene: Luchador_85 Start: 48225, Stop: 47965, Start Num: 15
Candidate Starts for Luchador_85:
(Start: 15 @48225 has 30 MA's), (20, 48201), (25, 48162), (31, 48108),

Gene: Maminiaina_89 Start: 49117, Stop: 48866, Start Num: 17
Candidate Starts for Maminiaina_89:
(Start: 17 @49117 has 6 MA's), (21, 49096), (25, 49060), (41, 48898),

Gene: Myxus_90 Start: 49196, Stop: 48951, Start Num: 15
Candidate Starts for Myxus_90:
(Start: 9 @49223 has 3 MA's), (Start: 15 @49196 has 30 MA's), (22, 49160), (25, 49133),

Gene: PackMan_85 Start: 47110, Stop: 46865, Start Num: 15
Candidate Starts for PackMan_85:
(Start: 9 @47137 has 3 MA's), (Start: 15 @47110 has 30 MA's), (22, 47074), (25, 47047),

Gene: PenguinLover67_60 Start: 56278, Stop: 55991, Start Num: 17
Candidate Starts for PenguinLover67_60:
(Start: 17 @56278 has 6 MA's), (37, 56119), (38, 56089), (42, 56017),

Gene: Ph8s_87 Start: 47838, Stop: 47596, Start Num: 15
Candidate Starts for Ph8s_87:
(12, 47853), (Start: 15 @47838 has 30 MA's), (27, 47760), (31, 47739),

Gene: Phaeder_90 Start: 49071, Stop: 48826, Start Num: 15
Candidate Starts for Phaeder_90:
(Start: 9 @49098 has 3 MA's), (Start: 15 @49071 has 30 MA's), (22, 49035), (25, 49008),

Gene: Phonnegut_90 Start: 49083, Stop: 48838, Start Num: 15
Candidate Starts for Phonnegut_90:
(Start: 9 @49110 has 3 MA's), (Start: 15 @49083 has 30 MA's), (22, 49047), (25, 49020),

Gene: Pioneer_90 Start: 49083, Stop: 48838, Start Num: 15
Candidate Starts for Pioneer_90:
(Start: 9 @49110 has 3 MA's), (Start: 15 @49083 has 30 MA's), (22, 49047), (25, 49020),

Gene: Priya_88 Start: 48855, Stop: 48610, Start Num: 15
Candidate Starts for Priya_88:
(Start: 9 @48882 has 3 MA's), (Start: 15 @48855 has 30 MA's), (22, 48819), (25, 48792),

Gene: Qobbit_88 Start: 48817, Stop: 48572, Start Num: 15
Candidate Starts for Qobbit_88:

(Start: 9 @48844 has 3 MA's), (Start: 15 @48817 has 30 MA's), (22, 48781), (25, 48754),

Gene: Rahalelujah_89 Start: 48618, Stop: 48364, Start Num: 15

Candidate Starts for Rahalelujah_89:

(Start: 9 @48642 has 3 MA's), (Start: 15 @48618 has 30 MA's), (19, 48597), (25, 48555), (41, 48396),

Gene: Refuge_88 Start: 50832, Stop: 50584, Start Num: 17

Candidate Starts for Refuge_88:

(Start: 17 @50832 has 6 MA's), (25, 50775), (41, 50616),

Gene: Scherzo_88 Start: 49115, Stop: 48870, Start Num: 15

Candidate Starts for Scherzo_88:

(Start: 9 @49142 has 3 MA's), (Start: 15 @49115 has 30 MA's), (22, 49079), (25, 49052),

Gene: SheaKeira_85 Start: 48361, Stop: 48110, Start Num: 14

Candidate Starts for SheaKeira_85:

(Start: 14 @48361 has 5 MA's), (21, 48334), (25, 48298), (39, 48181),

Gene: Spouty_85 Start: 48854, Stop: 48609, Start Num: 15

Candidate Starts for Spouty_85:

(Start: 9 @48881 has 3 MA's), (Start: 15 @48854 has 30 MA's), (22, 48818), (25, 48791),

Gene: Steamy_85 Start: 49811, Stop: 49554, Start Num: 16

Candidate Starts for Steamy_85:

(Start: 16 @49811 has 1 MA's), (25, 49751), (39, 49625),

Gene: Superchunk_86 Start: 47583, Stop: 47341, Start Num: 15

Candidate Starts for Superchunk_86:

(12, 47598), (Start: 15 @47583 has 30 MA's), (31, 47484),

Gene: SwirlSquare_89 Start: 47313, Stop: 47071, Start Num: 15

Candidate Starts for SwirlSquare_89:

(12, 47328), (Start: 15 @47313 has 30 MA's), (24, 47259), (27, 47235), (31, 47214), (38, 47148),

Gene: Toaka_88 Start: 48957, Stop: 48709, Start Num: 15

Candidate Starts for Toaka_88:

(7, 49023), (Start: 9 @48981 has 3 MA's), (11, 48969), (Start: 15 @48957 has 30 MA's), (22, 48921), (25, 48894), (32, 48846), (33, 48837), (39, 48780),

Gene: Tubs_90 Start: 49071, Stop: 48826, Start Num: 15

Candidate Starts for Tubs_90:

(Start: 9 @49098 has 3 MA's), (Start: 15 @49071 has 30 MA's), (22, 49035), (25, 49008),

Gene: Ugenie5_77 Start: 46559, Stop: 46314, Start Num: 15

Candidate Starts for Ugenie5_77:

(Start: 9 @46586 has 3 MA's), (Start: 15 @46559 has 30 MA's), (22, 46523), (25, 46496),

Gene: Vanisoa_85 Start: 49296, Stop: 49042, Start Num: 15

Candidate Starts for Vanisoa_85:

(7, 49362), (Start: 9 @49320 has 3 MA's), (11, 49308), (Start: 15 @49296 has 30 MA's), (19, 49275), (25, 49233), (31, 49185), (36, 49158), (39, 49113),

Gene: Yecey3_91 Start: 48834, Stop: 48583, Start Num: 14

Candidate Starts for Yecey3_91:

(Start: 14 @48834 has 5 MA's), (25, 48771), (41, 48615),

Gene: Zenteno07_70 Start: 57108, Stop: 56800, Start Num: 15

Candidate Starts for Zenteno07_70:

(Start: 15 @57108 has 30 MA's), (29, 56994),

Gene: Zimmer_87 Start: 50279, Stop: 50019, Start Num: 17

Candidate Starts for Zimmer_87:

(10, 50306), (Start: 17 @50279 has 6 MA's), (25, 50222), (34, 50153), (35, 50150), (36, 50135), (39, 50090),