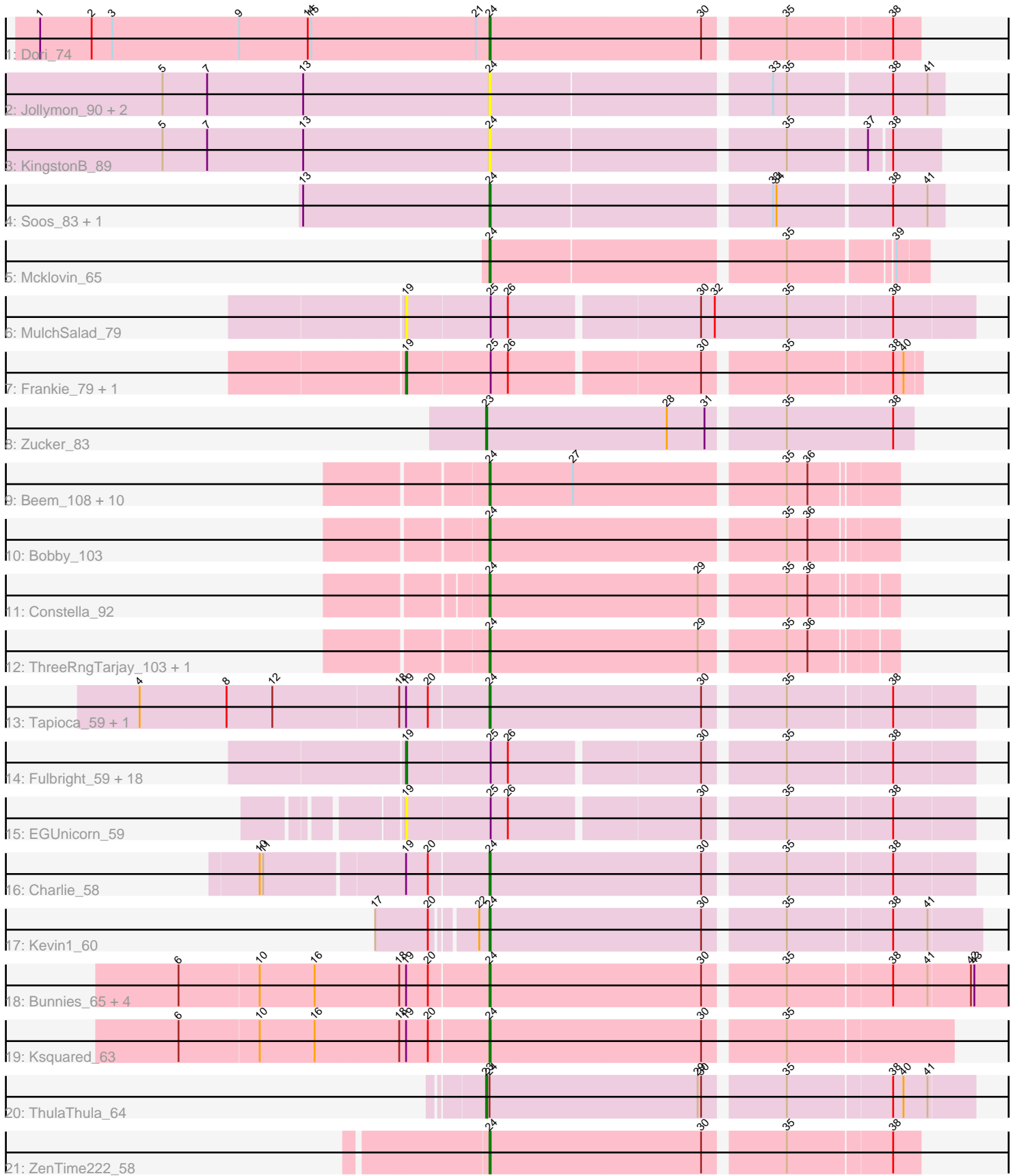


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216187 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216187 has 59 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Dori_74
- Track 2 : Jollymon_90, Amo99_90, ColdSoup_90
- Track 3 : KingstonB_89
- Track 4 : Soos_83, Sting_86
- Track 5 : Mcklovin_65
- Track 6 : MulchSalad_79
- Track 7 : Frankie_79, Piper2020_85
- Track 8 : Zucker_83
- Track 9 : Beem_108, Minerva_106, Schatzie_101, Bombitas_95, Dove_92, Ejimix_100, JuicyJay_103, HokkenD_96, Redno2_98, Halley_108, NihilNomen_108
- Track 10 : Bobby_103
- Track 11 : Constella_92
- Track 12 : ThreeRngTarjay_103, Optimus_100
- Track 13 : Tapioca_59, Andies_55
- Track 14 : Fulbright_59, Xerxes_61, Duplicity_59, Magsby_60, Phloss_59, Parmesanjohn_61, Chewbacca_64, FirstPlacePfu_63, Schnauzer_62, Pipsqueaks_62, Philonius_61, Silvy_57, Smurph_61, Aggie_57, SkinnyPete_58, Silvafighter_63, Melville_66, Carcharodon_61, Gex_62
- Track 15 : EGUnicorn_59
- Track 16 : Charlie_58
- Track 17 : Kevin1_60
- Track 18 : Bunnies_65, CactusJack_60, KilKor_60, Phalm_60, Glaske_59
- Track 19 : Ksquared_63
- Track 20 : ThulaThula_64
- Track 21 : ZenTime222_58

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

The start number called the most often in the published annotations is 24, it was called in 30 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99_90, Andies_55, Beem_108, Bobby_103, Bombitas_95, Bunnies_65, CactusJack_60, Charlie_58, ColdSoup_90, Constella_92, Dori_74, Dove_92,

Ejimix_100, Glaske_59, Halley_108, HokkenD_96, Jollymon_90, JuicyJay_103, Kevin1_60, KilKor_60, KingstonB_89, Ksquared_63, Mcklovin_65, Minerva_106, NihilNomen_108, Optimus_100, Phalm_60, Redno2_98, Schatzie_101, Soos_83, Sting_86, Tapioca_59, ThreeRngTarjay_103, ZenTime222_58,

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

- ThulaThula_64,

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

- Aggie_57, Carcharodon_61, Chewbacca_64, Duplicity_59, EGUnicorn_59, FirstPlacePfu_63, Frankie_79, Fulbright_59, Gex_62, Magsby_60, Melville_66, MulchSalad_79, Parmesanjohn_61, Philonius_61, Phloss_59, Piper2020_85, Pipsqueaks_62, Schnauzer_62, Silvafighter_63, Silvy_57, SkinnyPete_58, Smurph_61, Xerxes_61, Zucker_83,

Summary by start number:

Start 19:

- Found in 32 of 59 (54.2%) of genes in pham
- Manual Annotations of this start: 21 of 53
- Called 71.9% of time when present
- Phage (with cluster) where this start called: Aggie_57 (N), Carcharodon_61 (N), Chewbacca_64 (N), Duplicity_59 (N), EGUnicorn_59 (N), FirstPlacePfu_63 (P1), Frankie_79 (F1), Fulbright_59 (N), Gex_62 (N), Magsby_60 (N), Melville_66 (N), MulchSalad_79 (F), Parmesanjohn_61 (N), Philonius_61 (N), Phloss_59 (N), Piper2020_85 (F1), Pipsqueaks_62 (N), Schnauzer_62 (N), Silvafighter_63 (N), Silvy_57 (N), SkinnyPete_58 (N), Smurph_61 (N), Xerxes_61 (N),

Start 23:

- Found in 2 of 59 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThulaThula_64 (P5), Zucker_83 (FN),

Start 24:

- Found in 35 of 59 (59.3%) of genes in pham
- Manual Annotations of this start: 30 of 53
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Amo99_90 (CP), Andies_55 (N), Beem_108 (J), Bobby_103 (J), Bombitas_95 (J), Bunnies_65 (P1), CactusJack_60 (P1), Charlie_58 (N), ColdSoup_90 (CP), Constella_92 (J), Dori_74 (AD), Dove_92 (J), Ejimix_100 (J), Glaske_59 (P1), Halley_108 (J), HokkenD_96 (J), Jollymon_90 (CP), JuicyJay_103 (J), Kevin1_60 (N), KilKor_60 (P1), KingstonB_89 (CP), Ksquared_63 (P1), Mcklovin_65 (CZ4), Minerva_106 (J), NihilNomen_108 (J), Optimus_100 (J), Phalm_60 (P1), Redno2_98 (J), Schatzie_101 (J), Soos_83 (CP), Sting_86 (CP), Tapioca_59 (N), ThreeRngTarjay_103 (J), ZenTime222_58 (T),

Summary by clusters:

There are 11 clusters represented in this pham: F1, F, P1, AD, P5, J, CZ4, N, T, CP, FN,

Info for manual annotations of cluster AD:

- Start number 24 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CP:

- Start number 24 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster CZ4:

- Start number 24 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster F1:

- Start number 19 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster FN:

- Start number 23 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster J:

- Start number 24 was manually annotated 15 times for cluster J.

Info for manual annotations of cluster N:

- Start number 19 was manually annotated 18 times for cluster N.
- Start number 24 was manually annotated 4 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 19 was manually annotated 1 time for cluster P1.
- Start number 24 was manually annotated 6 times for cluster P1.

Info for manual annotations of cluster P5:

- Start number 23 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster T:

- Start number 24 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Aggie_57 Start: 39395, Stop: 39856, Start Num: 19

Candidate Starts for Aggie_57:

(Start: 19 @39395 has 21 MA's), (25, 39467), (26, 39482), (30, 39641), (35, 39704), (38, 39791),

Gene: Amo99_90 Start: 56291, Stop: 56665, Start Num: 24

Candidate Starts for Amo99_90:

(5, 56006), (7, 56045), (13, 56129), (Start: 24 @56291 has 30 MA's), (33, 56522), (35, 56534), (38, 56621), (41, 56651),

Gene: Andies_55 Start: 38900, Stop: 39301, Start Num: 24

Candidate Starts for Andies_55:

(4, 38603), (8, 38678), (12, 38717), (18, 38825), (Start: 19 @38831 has 21 MA's), (20, 38849), (Start: 24 @38900 has 30 MA's), (30, 39083), (35, 39146), (38, 39233),

Gene: Beem_108 Start: 62992, Stop: 63327, Start Num: 24

Candidate Starts for Beem_108:

(Start: 24 @62992 has 30 MA's), (27, 63064), (35, 63238), (36, 63256),

Gene: Bobby_103 Start: 64857, Stop: 65192, Start Num: 24

Candidate Starts for Bobby_103:

(Start: 24 @64857 has 30 MA's), (35, 65103), (36, 65121),

Gene: Bombitas_95 Start: 60155, Stop: 60490, Start Num: 24

Candidate Starts for Bombitas_95:

(Start: 24 @60155 has 30 MA's), (27, 60227), (35, 60401), (36, 60419),

Gene: Bunnies_65 Start: 41638, Stop: 42144, Start Num: 24

Candidate Starts for Bunnies_65:

(6, 41374), (10, 41443), (16, 41491), (18, 41563), (Start: 19 @41569 has 21 MA's), (20, 41587), (Start: 24 @41638 has 30 MA's), (30, 41821), (35, 41884), (38, 41971), (41, 42001), (42, 42037), (43, 42040),

Gene: CactusJack_60 Start: 40506, Stop: 41012, Start Num: 24

Candidate Starts for CactusJack_60:

(6, 40242), (10, 40311), (16, 40359), (18, 40431), (Start: 19 @40437 has 21 MA's), (20, 40455), (Start: 24 @40506 has 30 MA's), (30, 40689), (35, 40752), (38, 40839), (41, 40869), (42, 40905), (43, 40908),

Gene: Carcharodon_61 Start: 38739, Stop: 39203, Start Num: 19

Candidate Starts for Carcharodon_61:

(Start: 19 @38739 has 21 MA's), (25, 38811), (26, 38826), (30, 38985), (35, 39048), (38, 39135),

Gene: Charlie_58 Start: 38128, Stop: 38529, Start Num: 24

Candidate Starts for Charlie_58:

(10, 37939), (11, 37942), (Start: 19 @38059 has 21 MA's), (20, 38077), (Start: 24 @38128 has 30 MA's), (30, 38311), (35, 38374), (38, 38461),

Gene: Chewbacca_64 Start: 38634, Stop: 39098, Start Num: 19

Candidate Starts for Chewbacca_64:

(Start: 19 @38634 has 21 MA's), (25, 38706), (26, 38721), (30, 38880), (35, 38943), (38, 39030),

Gene: ColdSoup_90 Start: 56372, Stop: 56746, Start Num: 24

Candidate Starts for ColdSoup_90:

(5, 56087), (7, 56126), (13, 56210), (Start: 24 @56372 has 30 MA's), (33, 56603), (35, 56615), (38, 56702), (41, 56732),

Gene: Constella_92 Start: 57167, Stop: 57499, Start Num: 24

Candidate Starts for Constella_92:

(Start: 24 @57167 has 30 MA's), (29, 57347), (35, 57413), (36, 57431),

Gene: Dori_74 Start: 55849, Stop: 56205, Start Num: 24

Candidate Starts for Dori_74:

(1, 55459), (2, 55504), (3, 55522), (9, 55633), (14, 55693), (15, 55696), (21, 55837), (Start: 24 @55849 has 30 MA's), (30, 56032), (35, 56095), (38, 56182),

Gene: Dove_92 Start: 58421, Stop: 58756, Start Num: 24

Candidate Starts for Dove_92:

(Start: 24 @58421 has 30 MA's), (27, 58493), (35, 58667), (36, 58685),

Gene: Duplicity_59 Start: 37996, Stop: 38460, Start Num: 19

Candidate Starts for Duplicity_59:

(Start: 19 @37996 has 21 MA's), (25, 38068), (26, 38083), (30, 38242), (35, 38305), (38, 38392),

Gene: EGUunicorn_59 Start: 37062, Stop: 37526, Start Num: 19
Candidate Starts for EGUunicorn_59:
(Start: 19 @37062 has 21 MA's), (25, 37134), (26, 37149), (30, 37308), (35, 37371), (38, 37458),

Gene: Ejimix_100 Start: 62719, Stop: 63054, Start Num: 24
Candidate Starts for Ejimix_100:
(Start: 24 @62719 has 30 MA's), (27, 62791), (35, 62965), (36, 62983),

Gene: FirstPlacePfu_63 Start: 38539, Stop: 39003, Start Num: 19
Candidate Starts for FirstPlacePfu_63:
(Start: 19 @38539 has 21 MA's), (25, 38611), (26, 38626), (30, 38785), (35, 38848), (38, 38935),

Gene: Frankie_79 Start: 47128, Stop: 47547, Start Num: 19
Candidate Starts for Frankie_79:
(Start: 19 @47128 has 21 MA's), (25, 47200), (26, 47215), (30, 47374), (35, 47437), (38, 47524), (40, 47533),

Gene: Fulbright_59 Start: 37433, Stop: 37897, Start Num: 19
Candidate Starts for Fulbright_59:
(Start: 19 @37433 has 21 MA's), (25, 37505), (26, 37520), (30, 37679), (35, 37742), (38, 37829),

Gene: Gex_62 Start: 38755, Stop: 39219, Start Num: 19
Candidate Starts for Gex_62:
(Start: 19 @38755 has 21 MA's), (25, 38827), (26, 38842), (30, 39001), (35, 39064), (38, 39151),

Gene: Glaske_59 Start: 40506, Stop: 41012, Start Num: 24
Candidate Starts for Glaske_59:
(6, 40242), (10, 40311), (16, 40359), (18, 40431), (Start: 19 @40437 has 21 MA's), (20, 40455), (Start: 24 @40506 has 30 MA's), (30, 40689), (35, 40752), (38, 40839), (41, 40869), (42, 40905), (43, 40908),

Gene: Halley_108 Start: 62993, Stop: 63328, Start Num: 24
Candidate Starts for Halley_108:
(Start: 24 @62993 has 30 MA's), (27, 63065), (35, 63239), (36, 63257),

Gene: HokkenD_96 Start: 61261, Stop: 61596, Start Num: 24
Candidate Starts for HokkenD_96:
(Start: 24 @61261 has 30 MA's), (27, 61333), (35, 61507), (36, 61525),

Gene: Jollymon_90 Start: 56372, Stop: 56746, Start Num: 24
Candidate Starts for Jollymon_90:
(5, 56087), (7, 56126), (13, 56210), (Start: 24 @56372 has 30 MA's), (33, 56603), (35, 56615), (38, 56702), (41, 56732),

Gene: JuicyJay_103 Start: 64127, Stop: 64462, Start Num: 24
Candidate Starts for JuicyJay_103:
(Start: 24 @64127 has 30 MA's), (27, 64199), (35, 64373), (36, 64391),

Gene: Kevin1_60 Start: 37027, Stop: 37434, Start Num: 24
Candidate Starts for Kevin1_60:
(17, 36940), (20, 36985), (22, 37018), (Start: 24 @37027 has 30 MA's), (30, 37210), (35, 37273), (38, 37360), (41, 37390),

Gene: KilKor_60 Start: 41199, Stop: 41705, Start Num: 24

Candidate Starts for KilKor_60:

(6, 40935), (10, 41004), (16, 41052), (18, 41124), (Start: 19 @41130 has 21 MA's), (20, 41148), (Start: 24 @41199 has 30 MA's), (30, 41382), (35, 41445), (38, 41532), (41, 41562), (42, 41598), (43, 41601),

Gene: KingstonB_89 Start: 55783, Stop: 56148, Start Num: 24

Candidate Starts for KingstonB_89:

(5, 55498), (7, 55537), (13, 55621), (Start: 24 @55783 has 30 MA's), (35, 56026), (37, 56092), (38, 56107),

Gene: Ksquared_63 Start: 41638, Stop: 42021, Start Num: 24

Candidate Starts for Ksquared_63:

(6, 41374), (10, 41443), (16, 41491), (18, 41563), (Start: 19 @41569 has 21 MA's), (20, 41587), (Start: 24 @41638 has 30 MA's), (30, 41821), (35, 41884),

Gene: Magsby_60 Start: 38701, Stop: 39165, Start Num: 19

Candidate Starts for Magsby_60:

(Start: 19 @38701 has 21 MA's), (25, 38773), (26, 38788), (30, 38947), (35, 39010), (38, 39097),

Gene: Mcklovin_65 Start: 48076, Stop: 48429, Start Num: 24

Candidate Starts for Mcklovin_65:

(Start: 24 @48076 has 30 MA's), (35, 48319), (39, 48403),

Gene: Melville_66 Start: 38310, Stop: 38774, Start Num: 19

Candidate Starts for Melville_66:

(Start: 19 @38310 has 21 MA's), (25, 38382), (26, 38397), (30, 38556), (35, 38619), (38, 38706),

Gene: Minerva_106 Start: 62938, Stop: 63273, Start Num: 24

Candidate Starts for Minerva_106:

(Start: 24 @62938 has 30 MA's), (27, 63010), (35, 63184), (36, 63202),

Gene: MulchSalad_79 Start: 47746, Stop: 48222, Start Num: 19

Candidate Starts for MulchSalad_79:

(Start: 19 @47746 has 21 MA's), (25, 47818), (26, 47833), (30, 47992), (32, 48004), (35, 48067), (38, 48154),

Gene: NihilNomen_108 Start: 63079, Stop: 63414, Start Num: 24

Candidate Starts for NihilNomen_108:

(Start: 24 @63079 has 30 MA's), (27, 63151), (35, 63325), (36, 63343),

Gene: Optimus_100 Start: 61613, Stop: 61945, Start Num: 24

Candidate Starts for Optimus_100:

(Start: 24 @61613 has 30 MA's), (29, 61793), (35, 61859), (36, 61877),

Gene: Parmesanjohn_61 Start: 38759, Stop: 39223, Start Num: 19

Candidate Starts for Parmesanjohn_61:

(Start: 19 @38759 has 21 MA's), (25, 38831), (26, 38846), (30, 39005), (35, 39068), (38, 39155),

Gene: Phalm_60 Start: 40506, Stop: 41012, Start Num: 24

Candidate Starts for Phalm_60:

(6, 40242), (10, 40311), (16, 40359), (18, 40431), (Start: 19 @40437 has 21 MA's), (20, 40455), (Start: 24 @40506 has 30 MA's), (30, 40689), (35, 40752), (38, 40839), (41, 40869), (42, 40905), (43, 40908),

Gene: Philonius_61 Start: 38924, Stop: 39388, Start Num: 19

Candidate Starts for Philonius_61:

(Start: 19 @38924 has 21 MA's), (25, 38996), (26, 39011), (30, 39170), (35, 39233), (38, 39320),

Gene: Phloss_59 Start: 38166, Stop: 38630, Start Num: 19

Candidate Starts for Phloss_59:

(Start: 19 @38166 has 21 MA's), (25, 38238), (26, 38253), (30, 38412), (35, 38475), (38, 38562),

Gene: Piper2020_85 Start: 51523, Stop: 51987, Start Num: 19

Candidate Starts for Piper2020_85:

(Start: 19 @51523 has 21 MA's), (25, 51595), (26, 51610), (30, 51769), (35, 51832), (38, 51919), (40, 51928),

Gene: Pipsqueaks_62 Start: 38737, Stop: 39201, Start Num: 19

Candidate Starts for Pipsqueaks_62:

(Start: 19 @38737 has 21 MA's), (25, 38809), (26, 38824), (30, 38983), (35, 39046), (38, 39133),

Gene: Redno2_98 Start: 58813, Stop: 59148, Start Num: 24

Candidate Starts for Redno2_98:

(Start: 24 @58813 has 30 MA's), (27, 58885), (35, 59059), (36, 59077),

Gene: Schatzie_101 Start: 61869, Stop: 62204, Start Num: 24

Candidate Starts for Schatzie_101:

(Start: 24 @61869 has 30 MA's), (27, 61941), (35, 62115), (36, 62133),

Gene: Schnauzer_62 Start: 38759, Stop: 39223, Start Num: 19

Candidate Starts for Schnauzer_62:

(Start: 19 @38759 has 21 MA's), (25, 38831), (26, 38846), (30, 39005), (35, 39068), (38, 39155),

Gene: Silvafighter_63 Start: 38302, Stop: 38766, Start Num: 19

Candidate Starts for Silvafighter_63:

(Start: 19 @38302 has 21 MA's), (25, 38374), (26, 38389), (30, 38548), (35, 38611), (38, 38698),

Gene: Silvy_57 Start: 39395, Stop: 39856, Start Num: 19

Candidate Starts for Silvy_57:

(Start: 19 @39395 has 21 MA's), (25, 39467), (26, 39482), (30, 39641), (35, 39704), (38, 39791),

Gene: SkinnyPete_58 Start: 38506, Stop: 38970, Start Num: 19

Candidate Starts for SkinnyPete_58:

(Start: 19 @38506 has 21 MA's), (25, 38578), (26, 38593), (30, 38752), (35, 38815), (38, 38902),

Gene: Smurph_61 Start: 38759, Stop: 39223, Start Num: 19

Candidate Starts for Smurph_61:

(Start: 19 @38759 has 21 MA's), (25, 38831), (26, 38846), (30, 39005), (35, 39068), (38, 39155),

Gene: Soos_83 Start: 55576, Stop: 55950, Start Num: 24

Candidate Starts for Soos_83:

(13, 55414), (Start: 24 @55576 has 30 MA's), (33, 55807), (34, 55810), (38, 55906), (41, 55936),

Gene: Sting_86 Start: 56015, Stop: 56389, Start Num: 24

Candidate Starts for Sting_86:

(13, 55853), (Start: 24 @56015 has 30 MA's), (33, 56246), (34, 56249), (38, 56345), (41, 56375),

Gene: Tapioca_59 Start: 39339, Stop: 39740, Start Num: 24

Candidate Starts for Tapioca_59:

(4, 39042), (8, 39117), (12, 39156), (18, 39264), (Start: 19 @39270 has 21 MA's), (20, 39288), (Start: 24 @39339 has 30 MA's), (30, 39522), (35, 39585), (38, 39672),

Gene: ThreeRngTarjay_103 Start: 63154, Stop: 63486, Start Num: 24

Candidate Starts for ThreeRngTarjay_103:

(Start: 24 @63154 has 30 MA's), (29, 63334), (35, 63400), (36, 63418),

Gene: ThulaThula_64 Start: 43444, Stop: 43848, Start Num: 23

Candidate Starts for ThulaThula_64:

(Start: 23 @43444 has 2 MA's), (Start: 24 @43447 has 30 MA's), (29, 43627), (30, 43630), (35, 43693), (38, 43780), (40, 43789), (41, 43810),

Gene: Xerxes_61 Start: 38756, Stop: 39220, Start Num: 19

Candidate Starts for Xerxes_61:

(Start: 19 @38756 has 21 MA's), (25, 38828), (26, 38843), (30, 39002), (35, 39065), (38, 39152),

Gene: ZenTime222_58 Start: 39792, Stop: 40148, Start Num: 24

Candidate Starts for ZenTime222_58:

(Start: 24 @39792 has 30 MA's), (30, 39975), (35, 40038), (38, 40125),

Gene: Zucker_83 Start: 48730, Stop: 49089, Start Num: 23

Candidate Starts for Zucker_83:

(Start: 23 @48730 has 2 MA's), (28, 48886), (31, 48919), (35, 48979), (38, 49072),