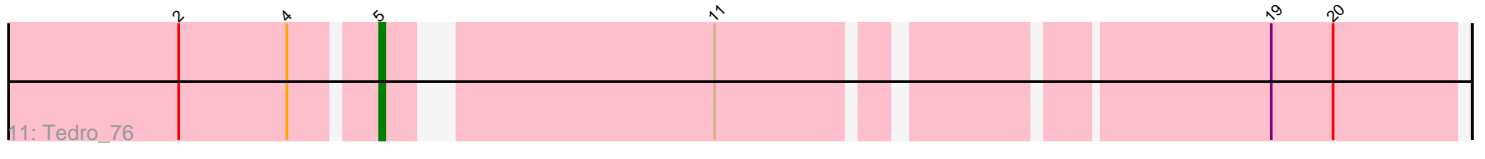
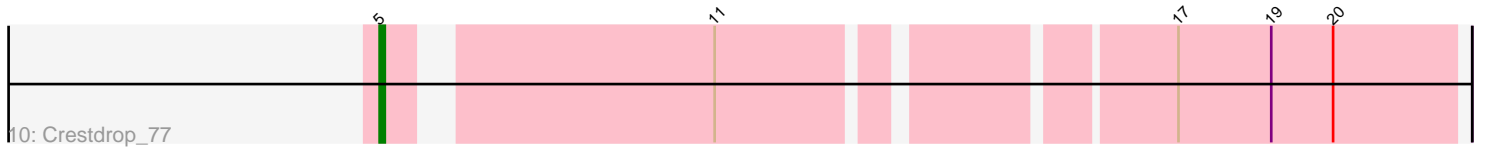
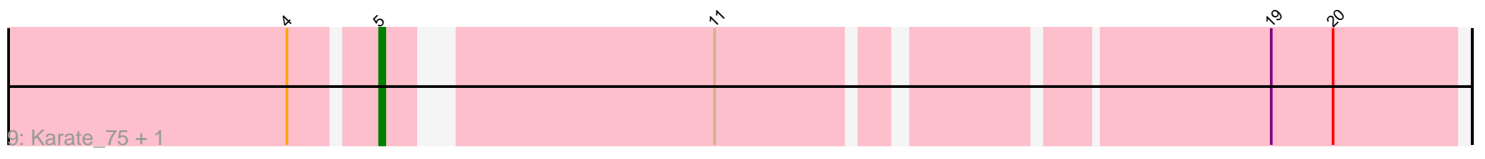
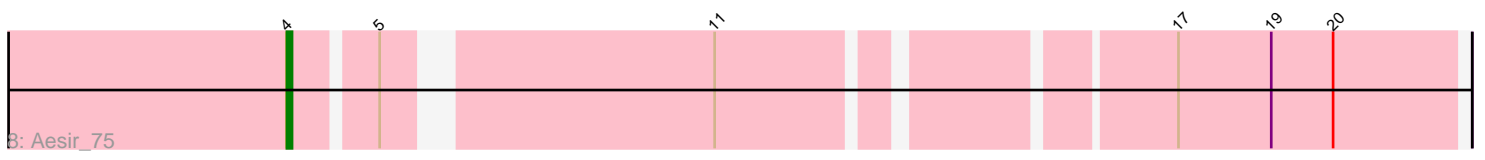
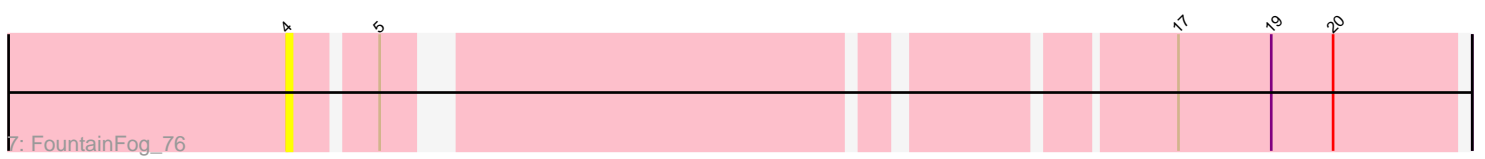
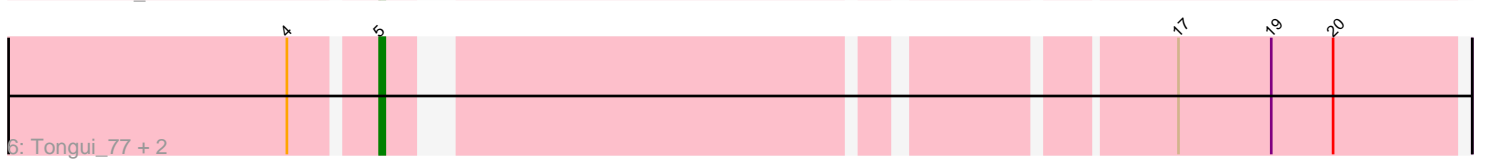
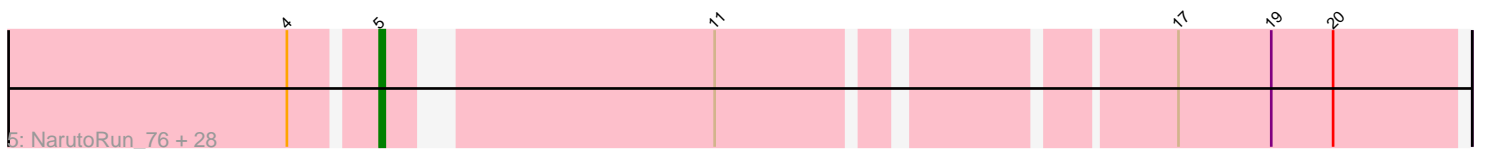
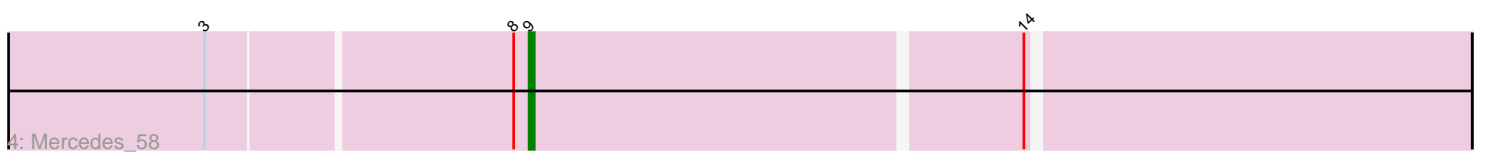
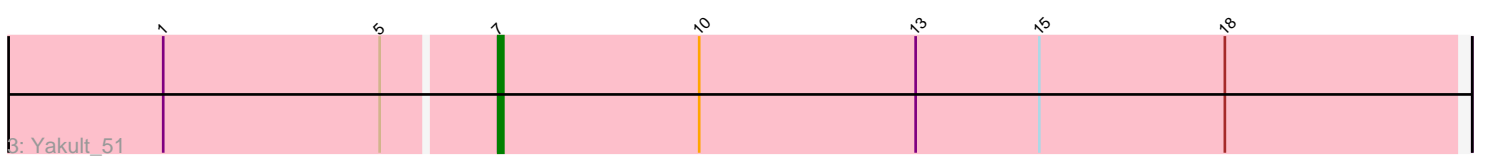
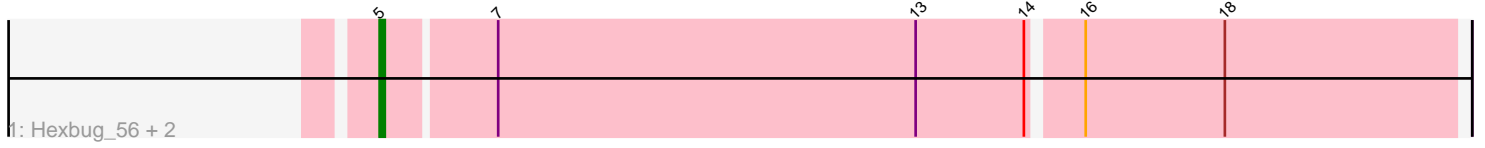


Pham 305099



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 305099 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305099 has 48 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Hexbug_56, Orla_56, Nodigi_56
- Track 2 : RanchParmCat_53, Button_51, Jamzy_53, GiKK_53, Margaret_54
- Track 3 : Yakult_51
- Track 4 : Mercedes_58
- Track 5 : NarutoRun_76, Kate_76, JingleBells_76, Snakehole_77, Cybele_76, PhunaPhoke_76, Erudite_75, AnnaSerena_76, Hiddenleaf_77, OverHedge_75, Gilda_76, Haunter_77, FreddieHg_77, SilentWarrior_77, Artiphact_76, OhDear_76, MortySmith_74, Pharpay_75, Krampus_76, Anakin_76, Potty_75, DannyDe_77, CoolCookie_75, JDawG_75, Neptune_76, Rachella_76, Dauntless_75, Chivey_77, Poultress_75
- Track 6 : Tongui_77, Rie18_76, Hager_78
- Track 7 : FountainFog_76
- Track 8 : Aesir_75
- Track 9 : Karate_75, Annapurna_77
- Track 10 : Crestdrop_77
- Track 11 : Tedro_76

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

The start number called the most often in the published annotations is 5, it was called in 42 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anakin_76, AnnaSerena_76, Annapurna_77, Artiphact_76, Button_51, Chivey_77, CoolCookie_75, Crestdrop_77, Cybele_76, DannyDe_77, Dauntless_75, Erudite_75, FreddieHg_77, GiKK_53, Gilda_76, Hager_78, Haunter_77, Hexbug_56, Hiddenleaf_77, JDawG_75, Jamzy_53, JingleBells_76, Karate_75, Kate_76, Krampus_76, Margaret_54, MortySmith_74, NarutoRun_76, Neptune_76, Nodigi_56, OhDear_76, Orla_56, OverHedge_75, Pharpay_75, PhunaPhoke_76, Potty_75, Poultress_75, Rachella_76, RanchParmCat_53, Rie18_76, SilentWarrior_77, Snakehole_77, Tedro_76, Tongui_77,

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

- Aesir_75, FountainFog_76, Yakult_51,

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

- Mercedes_58,

Summary by start number:

Start 4:

- Found in 37 of 48 (77.1%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 5.4% of time when present
- Phage (with cluster) where this start called: Aesir_75 (EF), FountainFog_76 (EF),

Start 5:

- Found in 47 of 48 (97.9%) of genes in pham
- Manual Annotations of this start: 42 of 45
- Called 93.6% of time when present
- Phage (with cluster) where this start called: Anakin_76 (EF), AnnaSerena_76 (EF), Annapurna_77 (EF), Artiphact_76 (EF), Button_51 (CT), Chivey_77 (EF), CoolCookie_75 (EF), Crestdrop_77 (EF), Cybele_76 (EF), DannyDe_77 (EF), Dauntless_75 (EF), Erudite_75 (EF), FreddieHg_77 (EF), GiKK_53 (CT), Gilda_76 (EF), Hager_78 (EF), Haunter_77 (EF), Hexbug_56 (CT), Hiddenleaf_77 (EF), JDawG_75 (EF), Jamzy_53 (CT), JingleBells_76 (EF), Karate_75 (EF), Kate_76 (EF), Krampus_76 (EF), Margaret_54 (CT), MortySmith_74 (EF), NarutoRun_76 (EF), Neptune_76 (EF), Nodigi_56 (CT), OhDear_76 (EF), Orla_56 (CT), OverHedge_75 (EF), Pharpay_75 (EF), PhunaPhoke_76 (EF), Potty_75 (EF), Poultress_75 (EF), Rachella_76 (EF), RanchParmCat_53 (CT), Rie18_76 (EF), SilentWarrior_77 (EF), Snakehole_77 (EF), Tedro_76 (EF), Tongui_77 (EF),

Start 7:

- Found in 9 of 48 (18.8%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Yakult_51 (CT),

Start 9:

- Found in 6 of 48 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Mercedes_58 (EA),

Summary by clusters:

There are 3 clusters represented in this pham: EF, EA, CT,

Info for manual annotations of cluster CT:

- Start number 5 was manually annotated 8 times for cluster CT.
- Start number 7 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster EA:

- Start number 9 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EF:

- Start number 4 was manually annotated 1 time for cluster EF.

- Start number 5 was manually annotated 34 times for cluster EF.

Gene Information:

Gene: Aesir_75 Start: 52985, Stop: 53188, Start Num: 4

Candidate Starts for Aesir_75:

(Start: 4 @52985 has 1 MA's), (Start: 5 @53000 has 42 MA's), (11, 53057), (17, 53135), (19, 53153), (20, 53165),

Gene: Anakin_76 Start: 53365, Stop: 53553, Start Num: 5

Candidate Starts for Anakin_76:

(Start: 4 @53350 has 1 MA's), (Start: 5 @53365 has 42 MA's), (11, 53422), (17, 53500), (19, 53518), (20, 53530),

Gene: AnnaSerena_76 Start: 53399, Stop: 53587, Start Num: 5

Candidate Starts for AnnaSerena_76:

(Start: 4 @53384 has 1 MA's), (Start: 5 @53399 has 42 MA's), (11, 53456), (17, 53534), (19, 53552), (20, 53564),

Gene: Annapurna_77 Start: 52999, Stop: 53187, Start Num: 5

Candidate Starts for Annapurna_77:

(Start: 4 @52984 has 1 MA's), (Start: 5 @52999 has 42 MA's), (11, 53056), (19, 53152), (20, 53164),

Gene: Artiphact_76 Start: 53389, Stop: 53577, Start Num: 5

Candidate Starts for Artiphact_76:

(Start: 4 @53374 has 1 MA's), (Start: 5 @53389 has 42 MA's), (11, 53446), (17, 53524), (19, 53542), (20, 53554),

Gene: Button_51 Start: 36058, Stop: 35855, Start Num: 5

Candidate Starts for Button_51:

(Start: 5 @36058 has 42 MA's), (6, 36046), (Start: 7 @36037 has 1 MA's), (Start: 9 @36031 has 1 MA's), (12, 35980), (13, 35956),

Gene: Chivey_77 Start: 52802, Stop: 52990, Start Num: 5

Candidate Starts for Chivey_77:

(Start: 4 @52787 has 1 MA's), (Start: 5 @52802 has 42 MA's), (11, 52859), (17, 52937), (19, 52955), (20, 52967),

Gene: CoolCookie_75 Start: 53498, Stop: 53686, Start Num: 5

Candidate Starts for CoolCookie_75:

(Start: 4 @53483 has 1 MA's), (Start: 5 @53498 has 42 MA's), (11, 53555), (17, 53633), (19, 53651), (20, 53663),

Gene: Crestdrop_77 Start: 53319, Stop: 53507, Start Num: 5

Candidate Starts for Crestdrop_77:

(Start: 5 @53319 has 42 MA's), (11, 53376), (17, 53454), (19, 53472), (20, 53484),

Gene: Cybele_76 Start: 53395, Stop: 53583, Start Num: 5

Candidate Starts for Cybele_76:

(Start: 4 @53380 has 1 MA's), (Start: 5 @53395 has 42 MA's), (11, 53452), (17, 53530), (19, 53548), (20, 53560),

Gene: DannyDe_77 Start: 52804, Stop: 52992, Start Num: 5

Candidate Starts for DannyDe_77:

(Start: 4 @52789 has 1 MA's), (Start: 5 @52804 has 42 MA's), (11, 52861), (17, 52939), (19, 52957), (20, 52969),

Gene: Dauntless_75 Start: 53031, Stop: 53219, Start Num: 5

Candidate Starts for Dauntless_75:

(Start: 4 @53016 has 1 MA's), (Start: 5 @53031 has 42 MA's), (11, 53088), (17, 53166), (19, 53184), (20, 53196),

Gene: Erudite_75 Start: 53031, Stop: 53219, Start Num: 5

Candidate Starts for Erudite_75:

(Start: 4 @53016 has 1 MA's), (Start: 5 @53031 has 42 MA's), (11, 53088), (17, 53166), (19, 53184), (20, 53196),

Gene: FountainFog_76 Start: 52859, Stop: 53062, Start Num: 4

Candidate Starts for FountainFog_76:

(Start: 4 @52859 has 1 MA's), (Start: 5 @52874 has 42 MA's), (17, 53009), (19, 53027), (20, 53039),

Gene: FreddieHg_77 Start: 52819, Stop: 53007, Start Num: 5

Candidate Starts for FreddieHg_77:

(Start: 4 @52804 has 1 MA's), (Start: 5 @52819 has 42 MA's), (11, 52876), (17, 52954), (19, 52972), (20, 52984),

Gene: GiKK_53 Start: 36382, Stop: 36179, Start Num: 5

Candidate Starts for GiKK_53:

(Start: 5 @36382 has 42 MA's), (6, 36370), (Start: 7 @36361 has 1 MA's), (Start: 9 @36355 has 1 MA's), (12, 36304), (13, 36280),

Gene: Gilda_76 Start: 53387, Stop: 53575, Start Num: 5

Candidate Starts for Gilda_76:

(Start: 4 @53372 has 1 MA's), (Start: 5 @53387 has 42 MA's), (11, 53444), (17, 53522), (19, 53540), (20, 53552),

Gene: Hager_78 Start: 52853, Stop: 53041, Start Num: 5

Candidate Starts for Hager_78:

(Start: 4 @52838 has 1 MA's), (Start: 5 @52853 has 42 MA's), (17, 52988), (19, 53006), (20, 53018),

Gene: Haunter_77 Start: 52808, Stop: 52996, Start Num: 5

Candidate Starts for Haunter_77:

(Start: 4 @52793 has 1 MA's), (Start: 5 @52808 has 42 MA's), (11, 52865), (17, 52943), (19, 52961), (20, 52973),

Gene: Hexbug_56 Start: 38441, Stop: 38238, Start Num: 5

Candidate Starts for Hexbug_56:

(Start: 5 @38441 has 42 MA's), (Start: 7 @38420 has 1 MA's), (13, 38339), (14, 38318), (16, 38309), (18, 38282),

Gene: Hiddenleaf_77 Start: 52802, Stop: 52990, Start Num: 5

Candidate Starts for Hiddenleaf_77:

(Start: 4 @52787 has 1 MA's), (Start: 5 @52802 has 42 MA's), (11, 52859), (17, 52937), (19, 52955), (20, 52967),

Gene: JDawG_75 Start: 52995, Stop: 53183, Start Num: 5

Candidate Starts for JDawG_75:

(Start: 4 @52980 has 1 MA's), (Start: 5 @52995 has 42 MA's), (11, 53052), (17, 53130), (19, 53148), (20, 53160),

Gene: Jamzy_53 Start: 36362, Stop: 36159, Start Num: 5

Candidate Starts for Jamzy_53:

(Start: 5 @36362 has 42 MA's), (6, 36350), (Start: 7 @36341 has 1 MA's), (Start: 9 @36335 has 1 MA's), (12, 36284), (13, 36260),

Gene: JingleBells_76 Start: 52907, Stop: 53095, Start Num: 5

Candidate Starts for JingleBells_76:

(Start: 4 @52892 has 1 MA's), (Start: 5 @52907 has 42 MA's), (11, 52964), (17, 53042), (19, 53060), (20, 53072),

Gene: Karate_75 Start: 53099, Stop: 53287, Start Num: 5

Candidate Starts for Karate_75:

(Start: 4 @53084 has 1 MA's), (Start: 5 @53099 has 42 MA's), (11, 53156), (19, 53252), (20, 53264),

Gene: Kate_76 Start: 53310, Stop: 53498, Start Num: 5

Candidate Starts for Kate_76:

(Start: 4 @53295 has 1 MA's), (Start: 5 @53310 has 42 MA's), (11, 53367), (17, 53445), (19, 53463), (20, 53475),

Gene: Krampus_76 Start: 53400, Stop: 53588, Start Num: 5

Candidate Starts for Krampus_76:

(Start: 4 @53385 has 1 MA's), (Start: 5 @53400 has 42 MA's), (11, 53457), (17, 53535), (19, 53553), (20, 53565),

Gene: Margaret_54 Start: 37114, Stop: 36911, Start Num: 5

Candidate Starts for Margaret_54:

(Start: 5 @37114 has 42 MA's), (6, 37102), (Start: 7 @37093 has 1 MA's), (Start: 9 @37087 has 1 MA's), (12, 37036), (13, 37012),

Gene: Mercedes_58 Start: 39826, Stop: 40002, Start Num: 9

Candidate Starts for Mercedes_58:

(3, 39766), (8, 39823), (Start: 9 @39826 has 1 MA's), (14, 39919),

Gene: MortySmith_74 Start: 52505, Stop: 52693, Start Num: 5

Candidate Starts for MortySmith_74:

(Start: 4 @52490 has 1 MA's), (Start: 5 @52505 has 42 MA's), (11, 52562), (17, 52640), (19, 52658), (20, 52670),

Gene: NarutoRun_76 Start: 53365, Stop: 53553, Start Num: 5

Candidate Starts for NarutoRun_76:

(Start: 4 @53350 has 1 MA's), (Start: 5 @53365 has 42 MA's), (11, 53422), (17, 53500), (19, 53518), (20, 53530),

Gene: Neptune_76 Start: 53395, Stop: 53583, Start Num: 5

Candidate Starts for Neptune_76:

(Start: 4 @53380 has 1 MA's), (Start: 5 @53395 has 42 MA's), (11, 53452), (17, 53530), (19, 53548), (20, 53560),

Gene: Nodigi_56 Start: 38471, Stop: 38268, Start Num: 5

Candidate Starts for Nodigi_56:

(Start: 5 @38471 has 42 MA's), (Start: 7 @38450 has 1 MA's), (13, 38369), (14, 38348), (16, 38339), (18, 38312),

Gene: OhDear_76 Start: 53363, Stop: 53551, Start Num: 5

Candidate Starts for OhDear_76:

(Start: 4 @53348 has 1 MA's), (Start: 5 @53363 has 42 MA's), (11, 53420), (17, 53498), (19, 53516), (20, 53528),

Gene: Orla_56 Start: 38400, Stop: 38197, Start Num: 5

Candidate Starts for Orla_56:

(Start: 5 @38400 has 42 MA's), (Start: 7 @38379 has 1 MA's), (13, 38298), (14, 38277), (16, 38268), (18, 38241),

Gene: OverHedge_75 Start: 53261, Stop: 53449, Start Num: 5

Candidate Starts for OverHedge_75:

(Start: 4 @53246 has 1 MA's), (Start: 5 @53261 has 42 MA's), (11, 53318), (17, 53396), (19, 53414), (20, 53426),

Gene: Pharpay_75 Start: 53410, Stop: 53598, Start Num: 5

Candidate Starts for Pharpay_75:

(Start: 4 @53395 has 1 MA's), (Start: 5 @53410 has 42 MA's), (11, 53467), (17, 53545), (19, 53563), (20, 53575),

Gene: PhunaPhoke_76 Start: 53380, Stop: 53568, Start Num: 5

Candidate Starts for PhunaPhoke_76:

(Start: 4 @53365 has 1 MA's), (Start: 5 @53380 has 42 MA's), (11, 53437), (17, 53515), (19, 53533), (20, 53545),

Gene: Potty_75 Start: 53310, Stop: 53498, Start Num: 5

Candidate Starts for Potty_75:

(Start: 4 @53295 has 1 MA's), (Start: 5 @53310 has 42 MA's), (11, 53367), (17, 53445), (19, 53463), (20, 53475),

Gene: Poultruss_75 Start: 53607, Stop: 53795, Start Num: 5

Candidate Starts for Poultruss_75:

(Start: 4 @53592 has 1 MA's), (Start: 5 @53607 has 42 MA's), (11, 53664), (17, 53742), (19, 53760), (20, 53772),

Gene: Rachella_76 Start: 53391, Stop: 53579, Start Num: 5

Candidate Starts for Rachella_76:

(Start: 4 @53376 has 1 MA's), (Start: 5 @53391 has 42 MA's), (11, 53448), (17, 53526), (19, 53544), (20, 53556),

Gene: RanchParmCat_53 Start: 37255, Stop: 37052, Start Num: 5

Candidate Starts for RanchParmCat_53:

(Start: 5 @37255 has 42 MA's), (6, 37243), (Start: 7 @37234 has 1 MA's), (Start: 9 @37228 has 1 MA's), (12, 37177), (13, 37153),

Gene: Rie18_76 Start: 53133, Stop: 53321, Start Num: 5

Candidate Starts for Rie18_76:

(Start: 4 @53118 has 1 MA's), (Start: 5 @53133 has 42 MA's), (17, 53268), (19, 53286), (20, 53298),

Gene: SilentWarrior_77 Start: 52768, Stop: 52956, Start Num: 5

Candidate Starts for SilentWarrior_77:

(Start: 4 @52753 has 1 MA's), (Start: 5 @52768 has 42 MA's), (11, 52825), (17, 52903), (19, 52921), (20, 52933),

Gene: Snakehole_77 Start: 52751, Stop: 52939, Start Num: 5

Candidate Starts for Snakehole_77:

(Start: 4 @52736 has 1 MA's), (Start: 5 @52751 has 42 MA's), (11, 52808), (17, 52886), (19, 52904), (20, 52916),

Gene: Tedro_76 Start: 52895, Stop: 53083, Start Num: 5

Candidate Starts for Tedro_76:

(2, 52859), (Start: 4 @52880 has 1 MA's), (Start: 5 @52895 has 42 MA's), (11, 52952), (19, 53048), (20, 53060),

Gene: Tongui_77 Start: 53245, Stop: 53433, Start Num: 5

Candidate Starts for Tongui_77:

(Start: 4 @53230 has 1 MA's), (Start: 5 @53245 has 42 MA's), (17, 53380), (19, 53398), (20, 53410),

Gene: Yakult_51 Start: 37137, Stop: 36952, Start Num: 7

Candidate Starts for Yakult_51:

(1, 37200), (Start: 5 @37158 has 42 MA's), (Start: 7 @37137 has 1 MA's), (10, 37098), (13, 37056), (15, 37032), (18, 36996),