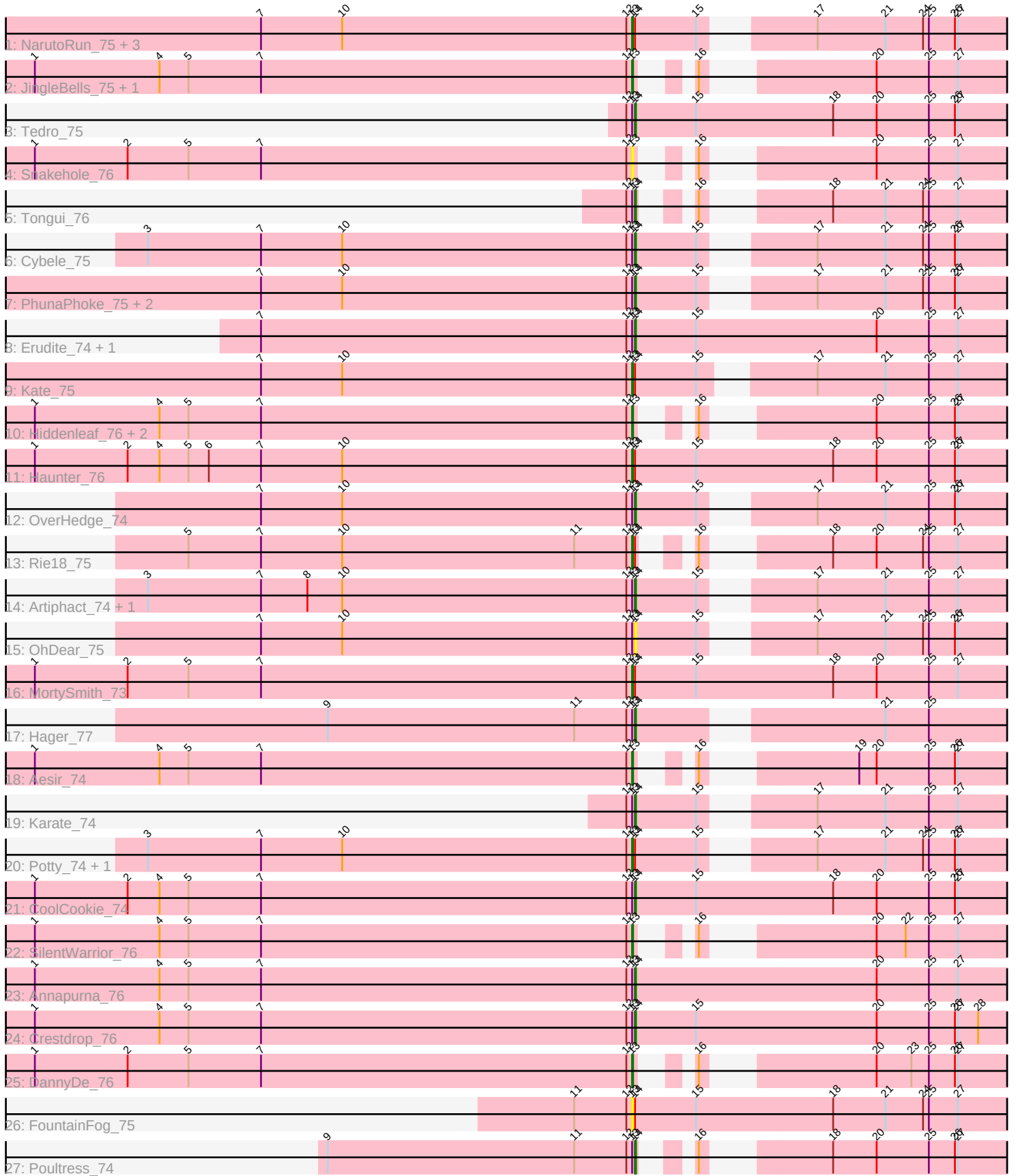




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 276349 Report

This analysis was run 02/07/26 on database version 634.

Pham number 276349 has 38 members, 4 are drafts.

Phages represented in each track:

- Track 1 : NarutoRun_75, AnnaSerena_75, Anakin_75, Krampus_75
- Track 2 : JingleBells_75, JDawG_74
- Track 3 : Tedro_75
- Track 4 : Snakehole_76
- Track 5 : Tongui_76
- Track 6 : Cybele_75
- Track 7 : PhunaPhoke_75, Gilda_75, Rachella_75
- Track 8 : Erudite_74, Dauntless_74
- Track 9 : Kate_75
- Track 10 : Hiddenleaf_76, FreddieHg_76, Chivey_76
- Track 11 : Haunter_76
- Track 12 : OverHedge_74
- Track 13 : Rie18_75
- Track 14 : Artiphact_74, Pharpay_74
- Track 15 : OhDear_75
- Track 16 : MortySmith_73
- Track 17 : Hager_77
- Track 18 : Aesir_74
- Track 19 : Karate_74
- Track 20 : Potty_74, Neptune_75
- Track 21 : CoolCookie_74
- Track 22 : SilentWarrior_76
- Track 23 : Annapurna_76
- Track 24 : Crestdrop_76
- Track 25 : DannyDe_76
- Track 26 : FountainFog_75
- Track 27 : Poultress_74

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

The start number called the most often in the published annotations is 13, it was called in 18 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_74, Anakin_75, AnnaSerena_75, Chivey_76, DannyDe_76, FountainFog_75, FreddieHg_76, Haunter_76, Hiddenleaf_76, JDawG_74, JingleBells_75, Kate_75, Krampus_75, MortySmith_73, NarutoRun_75, Neptune_75, Potty_74, Rie18_75, SilentWarrior_76, Snakehole_76,

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

- Annapurna_76, Artiphact_74, CoolCookie_74, Crestdrop_76, Cybele_75, Dauntless_74, Erudite_74, Gilda_75, Hager_77, Karate_74, OhDear_75, OverHedge_74, Pharpay_74, PhunaPhoke_75, Poultruss_74, Rachella_75, Tedro_75, Tongui_76,

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

-

Summary by start number:

Start 13:

- Found in 38 of 38 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 34
- Called 52.6% of time when present
- Phage (with cluster) where this start called: Aesir_74 (EF), Anakin_75 (EF), AnnaSerena_75 (EF), Chivey_76 (EF), DannyDe_76 (EF), FountainFog_75 (EF), FreddieHg_76 (EF), Haunter_76 (EF), Hiddenleaf_76 (EF), JDawG_74 (EF), JingleBells_75 (EF), Kate_75 (EF), Krampus_75 (EF), MortySmith_73 (EF), NarutoRun_75 (EF), Neptune_75 (EF), Potty_74 (EF), Rie18_75 (EF), SilentWarrior_76 (EF), Snakehole_76 (EF),

Start 14:

- Found in 29 of 38 (76.3%) of genes in pham
- Manual Annotations of this start: 16 of 34
- Called 62.1% of time when present
- Phage (with cluster) where this start called: Annapurna_76 (EF), Artiphact_74 (EF), CoolCookie_74 (EF), Crestdrop_76 (EF), Cybele_75 (EF), Dauntless_74 (EF), Erudite_74 (EF), Gilda_75 (EF), Hager_77 (EF), Karate_74 (EF), OhDear_75 (EF), OverHedge_74 (EF), Pharpay_74 (EF), PhunaPhoke_75 (EF), Poultruss_74 (EF), Rachella_75 (EF), Tedro_75 (EF), Tongui_76 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 13 was manually annotated 18 times for cluster EF.
- Start number 14 was manually annotated 16 times for cluster EF.

Gene Information:

Gene: Aesir_74 Start: 52626, Stop: 53003, Start Num: 13

Candidate Starts for Aesir_74:

(1, 52008), (4, 52137), (5, 52167), (7, 52242), (12, 52620), (Start: 13 @52626 has 18 MA's), (16, 52650), (19, 52764), (20, 52782), (25, 52836), (26, 52863), (27, 52866),

Gene: Anakin_75 Start: 52940, Stop: 53368, Start Num: 13

Candidate Starts for Anakin_75:

(7, 52556), (10, 52640), (12, 52934), (Start: 13 @52940 has 18 MA's), (Start: 14 @52943 has 16 MA's), (15, 53006), (17, 53087), (21, 53156), (24, 53195), (25, 53201), (26, 53228), (27, 53231),

Gene: AnnaSerena_75 Start: 52974, Stop: 53402, Start Num: 13

Candidate Starts for AnnaSerena_75:

(7, 52590), (10, 52674), (12, 52968), (Start: 13 @52974 has 18 MA's), (Start: 14 @52977 has 16 MA's), (15, 53040), (17, 53121), (21, 53190), (24, 53229), (25, 53235), (26, 53262), (27, 53265),

Gene: Annapurna_76 Start: 52532, Stop: 53002, Start Num: 14

Candidate Starts for Annapurna_76:

(1, 51911), (4, 52040), (5, 52070), (7, 52145), (12, 52523), (Start: 13 @52529 has 18 MA's), (Start: 14 @52532 has 16 MA's), (20, 52781), (25, 52835), (27, 52865),

Gene: Artiphact_74 Start: 52967, Stop: 53392, Start Num: 14

Candidate Starts for Artiphact_74:

(3, 52463), (7, 52580), (8, 52628), (10, 52664), (12, 52958), (Start: 13 @52964 has 18 MA's), (Start: 14 @52967 has 16 MA's), (15, 53030), (17, 53111), (21, 53180), (25, 53225), (27, 53255),

Gene: Chivey_76 Start: 52428, Stop: 52805, Start Num: 13

Candidate Starts for Chivey_76:

(1, 51810), (4, 51939), (5, 51969), (7, 52044), (12, 52422), (Start: 13 @52428 has 18 MA's), (16, 52452), (20, 52584), (25, 52638), (26, 52665), (27, 52668),

Gene: CoolCookie_74 Start: 53031, Stop: 53501, Start Num: 14

Candidate Starts for CoolCookie_74:

(1, 52410), (2, 52506), (4, 52539), (5, 52569), (7, 52644), (12, 53022), (Start: 13 @53028 has 18 MA's), (Start: 14 @53031 has 16 MA's), (15, 53094), (18, 53235), (20, 53280), (25, 53334), (26, 53361), (27, 53364),

Gene: Crestdrop_76 Start: 52855, Stop: 53322, Start Num: 14

Candidate Starts for Crestdrop_76:

(1, 52234), (4, 52363), (5, 52393), (7, 52468), (12, 52846), (Start: 13 @52852 has 18 MA's), (Start: 14 @52855 has 16 MA's), (15, 52918), (20, 53104), (25, 53158), (26, 53185), (27, 53188), (28, 53209),

Gene: Cybele_75 Start: 52973, Stop: 53398, Start Num: 14

Candidate Starts for Cybele_75:

(3, 52469), (7, 52586), (10, 52670), (12, 52964), (Start: 13 @52970 has 18 MA's), (Start: 14 @52973 has 16 MA's), (15, 53036), (17, 53117), (21, 53186), (24, 53225), (25, 53231), (26, 53258), (27, 53261),

Gene: DannyDe_76 Start: 52430, Stop: 52807, Start Num: 13

Candidate Starts for DannyDe_76:

(1, 51812), (2, 51908), (5, 51971), (7, 52046), (12, 52424), (Start: 13 @52430 has 18 MA's), (16, 52454), (20, 52586), (23, 52622), (25, 52640), (26, 52667), (27, 52670),

Gene: Dauntless_74 Start: 52564, Stop: 53034, Start Num: 14

Candidate Starts for Dauntless_74:

(7, 52177), (12, 52555), (Start: 13 @52561 has 18 MA's), (Start: 14 @52564 has 16 MA's), (15, 52627), (20, 52813), (25, 52867), (27, 52897),

Gene: Erudite_74 Start: 52564, Stop: 53034, Start Num: 14

Candidate Starts for Erudite_74:

(7, 52177), (12, 52555), (Start: 13 @52561 has 18 MA's), (Start: 14 @52564 has 16 MA's), (15, 52627), (20, 52813), (25, 52867), (27, 52897),

Gene: FountainFog_75 Start: 52404, Stop: 52877, Start Num: 13

Candidate Starts for FountainFog_75:

(11, 52344), (12, 52398), (Start: 13 @52404 has 18 MA's), (Start: 14 @52407 has 16 MA's), (15, 52470), (18, 52611), (21, 52665), (24, 52704), (25, 52710), (27, 52740),

Gene: FreddieHg_76 Start: 52445, Stop: 52822, Start Num: 13

Candidate Starts for FreddieHg_76:

(1, 51827), (4, 51956), (5, 51986), (7, 52061), (12, 52439), (Start: 13 @52445 has 18 MA's), (16, 52469), (20, 52601), (25, 52655), (26, 52682), (27, 52685),

Gene: Gilda_75 Start: 52965, Stop: 53390, Start Num: 14

Candidate Starts for Gilda_75:

(7, 52578), (10, 52662), (12, 52956), (Start: 13 @52962 has 18 MA's), (Start: 14 @52965 has 16 MA's), (15, 53028), (17, 53109), (21, 53178), (24, 53217), (25, 53223), (26, 53250), (27, 53253),

Gene: Hager_77 Start: 52431, Stop: 52856, Start Num: 14

Candidate Starts for Hager_77:

(9, 52113), (11, 52368), (12, 52422), (Start: 13 @52428 has 18 MA's), (Start: 14 @52431 has 16 MA's), (21, 52644), (25, 52689),

Gene: Haunter_76 Start: 52338, Stop: 52811, Start Num: 13

Candidate Starts for Haunter_76:

(1, 51720), (2, 51816), (4, 51849), (5, 51879), (6, 51900), (7, 51954), (10, 52038), (12, 52332), (Start: 13 @52338 has 18 MA's), (Start: 14 @52341 has 16 MA's), (15, 52404), (18, 52545), (20, 52590), (25, 52644), (26, 52671), (27, 52674),

Gene: Hiddenleaf_76 Start: 52428, Stop: 52805, Start Num: 13

Candidate Starts for Hiddenleaf_76:

(1, 51810), (4, 51939), (5, 51969), (7, 52044), (12, 52422), (Start: 13 @52428 has 18 MA's), (16, 52452), (20, 52584), (25, 52638), (26, 52665), (27, 52668),

Gene: JDawG_74 Start: 52621, Stop: 52998, Start Num: 13

Candidate Starts for JDawG_74:

(1, 52003), (4, 52132), (5, 52162), (7, 52237), (12, 52615), (Start: 13 @52621 has 18 MA's), (16, 52645), (20, 52777), (25, 52831), (27, 52861),

Gene: JingleBells_75 Start: 52533, Stop: 52910, Start Num: 13

Candidate Starts for JingleBells_75:

(1, 51915), (4, 52044), (5, 52074), (7, 52149), (12, 52527), (Start: 13 @52533 has 18 MA's), (16, 52557), (20, 52689), (25, 52743), (27, 52773),

Gene: Karate_74 Start: 52677, Stop: 53102, Start Num: 14

Candidate Starts for Karate_74:

(12, 52668), (Start: 13 @52674 has 18 MA's), (Start: 14 @52677 has 16 MA's), (15, 52740), (17, 52821), (21, 52890), (25, 52935), (27, 52965),

Gene: Kate_75 Start: 52879, Stop: 53313, Start Num: 13

Candidate Starts for Kate_75:

(7, 52495), (10, 52579), (12, 52873), (Start: 13 @52879 has 18 MA's), (Start: 14 @52882 has 16 MA's), (15, 52945), (17, 53032), (21, 53101), (25, 53146), (27, 53176),

Gene: Krampus_75 Start: 52975, Stop: 53403, Start Num: 13

Candidate Starts for Krampus_75:

(7, 52591), (10, 52675), (12, 52969), (Start: 13 @52975 has 18 MA's), (Start: 14 @52978 has 16 MA's), (15, 53041), (17, 53122), (21, 53191), (24, 53230), (25, 53236), (26, 53263), (27, 53266),

Gene: MortySmith_73 Start: 52035, Stop: 52508, Start Num: 13

Candidate Starts for MortySmith_73:

(1, 51417), (2, 51513), (5, 51576), (7, 51651), (12, 52029), (Start: 13 @52035 has 18 MA's), (Start: 14 @52038 has 16 MA's), (15, 52101), (18, 52242), (20, 52287), (25, 52341), (27, 52371),

Gene: NarutoRun_75 Start: 52940, Stop: 53368, Start Num: 13

Candidate Starts for NarutoRun_75:

(7, 52556), (10, 52640), (12, 52934), (Start: 13 @52940 has 18 MA's), (Start: 14 @52943 has 16 MA's), (15, 53006), (17, 53087), (21, 53156), (24, 53195), (25, 53201), (26, 53228), (27, 53231),

Gene: Neptune_75 Start: 52970, Stop: 53398, Start Num: 13

Candidate Starts for Neptune_75:

(3, 52469), (7, 52586), (10, 52670), (12, 52964), (Start: 13 @52970 has 18 MA's), (Start: 14 @52973 has 16 MA's), (15, 53036), (17, 53117), (21, 53186), (24, 53225), (25, 53231), (26, 53258), (27, 53261),

Gene: OhDear_75 Start: 52941, Stop: 53366, Start Num: 14

Candidate Starts for OhDear_75:

(7, 52554), (10, 52638), (12, 52932), (Start: 13 @52938 has 18 MA's), (Start: 14 @52941 has 16 MA's), (15, 53004), (17, 53085), (21, 53154), (24, 53193), (25, 53199), (26, 53226), (27, 53229),

Gene: OverHedge_74 Start: 52839, Stop: 53264, Start Num: 14

Candidate Starts for OverHedge_74:

(7, 52452), (10, 52536), (12, 52830), (Start: 13 @52836 has 18 MA's), (Start: 14 @52839 has 16 MA's), (15, 52902), (17, 52983), (21, 53052), (25, 53097), (26, 53124), (27, 53127),

Gene: Pharpay_74 Start: 52988, Stop: 53413, Start Num: 14

Candidate Starts for Pharpay_74:

(3, 52484), (7, 52601), (8, 52649), (10, 52685), (12, 52979), (Start: 13 @52985 has 18 MA's), (Start: 14 @52988 has 16 MA's), (15, 53051), (17, 53132), (21, 53201), (25, 53246), (27, 53276),

Gene: PhunaPhoke_75 Start: 52958, Stop: 53383, Start Num: 14

Candidate Starts for PhunaPhoke_75:

(7, 52571), (10, 52655), (12, 52949), (Start: 13 @52955 has 18 MA's), (Start: 14 @52958 has 16 MA's), (15, 53021), (17, 53102), (21, 53171), (24, 53210), (25, 53216), (26, 53243), (27, 53246),

Gene: Potty_74 Start: 52885, Stop: 53313, Start Num: 13

Candidate Starts for Potty_74:

(3, 52384), (7, 52501), (10, 52585), (12, 52879), (Start: 13 @52885 has 18 MA's), (Start: 14 @52888 has 16 MA's), (15, 52951), (17, 53032), (21, 53101), (24, 53140), (25, 53146), (26, 53173), (27, 53176),

Gene: Poultress_74 Start: 53233, Stop: 53610, Start Num: 14

Candidate Starts for Poultress_74:

(9, 52915), (11, 53170), (12, 53224), (Start: 13 @53230 has 18 MA's), (Start: 14 @53233 has 16 MA's), (16, 53257), (18, 53344), (20, 53389), (25, 53443), (26, 53470), (27, 53473),

Gene: Rachella_75 Start: 52969, Stop: 53394, Start Num: 14

Candidate Starts for Rachella_75:

(7, 52582), (10, 52666), (12, 52960), (Start: 13 @52966 has 18 MA's), (Start: 14 @52969 has 16 MA's), (15, 53032), (17, 53113), (21, 53182), (24, 53221), (25, 53227), (26, 53254), (27, 53257),

Gene: Rie18_75 Start: 52756, Stop: 53136, Start Num: 13

Candidate Starts for Rie18_75:

(5, 52297), (7, 52372), (10, 52456), (11, 52696), (12, 52750), (Start: 13 @52756 has 18 MA's), (Start: 14 @52759 has 16 MA's), (16, 52783), (18, 52870), (20, 52915), (24, 52963), (25, 52969), (27, 52999),

Gene: SilentWarrior_76 Start: 52394, Stop: 52771, Start Num: 13

Candidate Starts for SilentWarrior_76:

(1, 51776), (4, 51905), (5, 51935), (7, 52010), (12, 52388), (Start: 13 @52394 has 18 MA's), (16, 52418), (20, 52550), (22, 52580), (25, 52604), (27, 52634),

Gene: Snakehole_76 Start: 52377, Stop: 52754, Start Num: 13

Candidate Starts for Snakehole_76:

(1, 51759), (2, 51855), (5, 51918), (7, 51993), (12, 52371), (Start: 13 @52377 has 18 MA's), (16, 52401), (20, 52533), (25, 52587), (27, 52617),

Gene: Tedro_75 Start: 52428, Stop: 52898, Start Num: 14

Candidate Starts for Tedro_75:

(12, 52419), (Start: 13 @52425 has 18 MA's), (Start: 14 @52428 has 16 MA's), (15, 52491), (18, 52632), (20, 52677), (25, 52731), (26, 52758), (27, 52761),

Gene: Tongui_76 Start: 52871, Stop: 53248, Start Num: 14

Candidate Starts for Tongui_76:

(12, 52862), (Start: 13 @52868 has 18 MA's), (Start: 14 @52871 has 16 MA's), (16, 52895), (18, 52982), (21, 53036), (24, 53075), (25, 53081), (27, 53111),