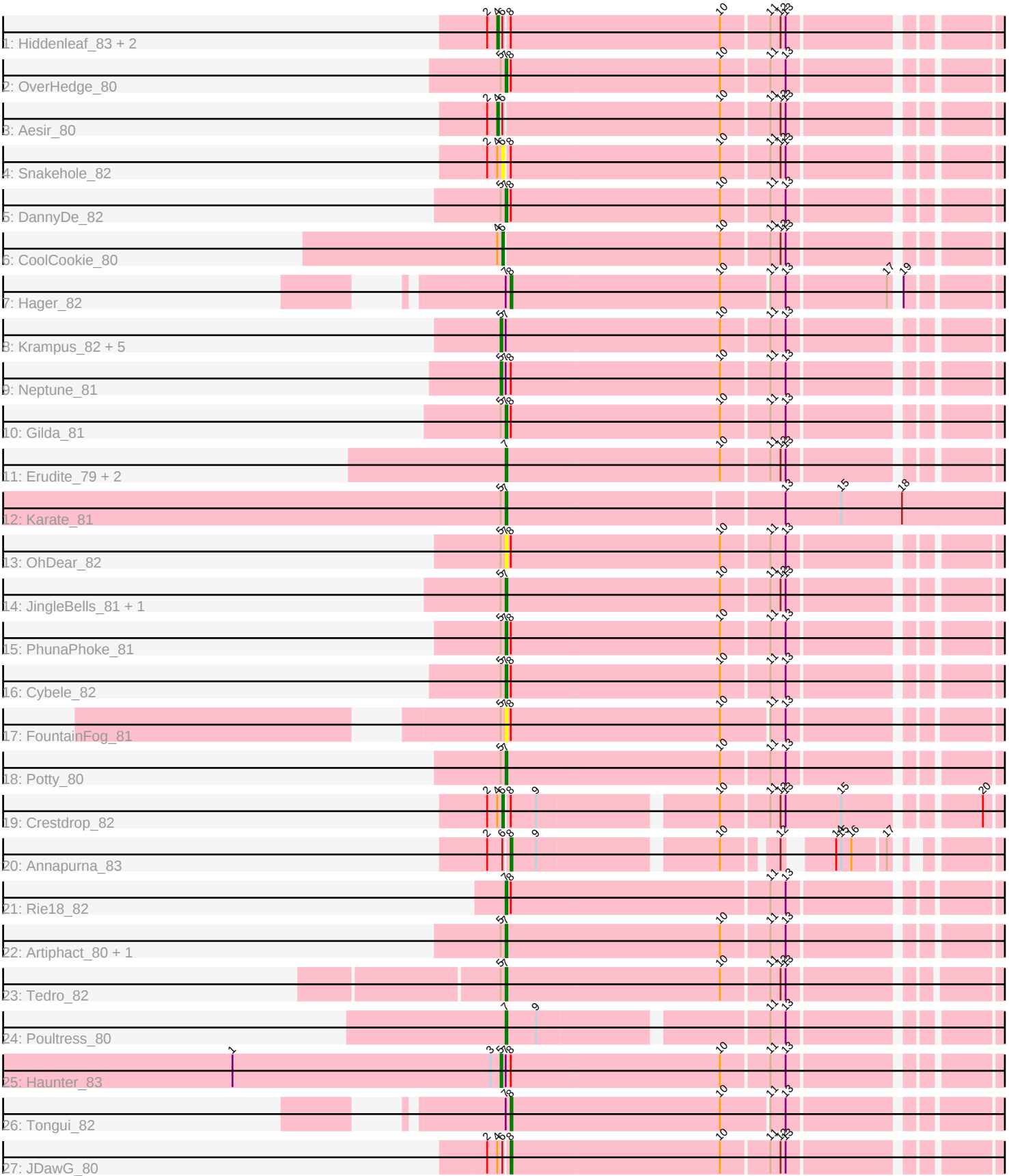


Zoomed Pham 266533



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 266533 Report

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

Pham number 266533 has 38 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Hiddenleaf_83, Chivey_83, FreddieHg_83
- Track 2 : OverHedge_80
- Track 3 : Aesir_80
- Track 4 : Snakehole_82
- Track 5 : DannyDe_82
- Track 6 : CoolCookie_80
- Track 7 : Hager_82
- Track 8 : Krampus_82, Rachella_82, Kate_82, NarutoRun_81, Anakin_81, AnnaSerena_82
- Track 9 : Neptune_81
- Track 10 : Gilda_81
- Track 11 : Erudite_79, MortySmith_78, Dauntless_79
- Track 12 : Karate_81
- Track 13 : OhDear_82
- Track 14 : JingleBells_81, SilentWarrior_82
- Track 15 : PhunaPhoke_81
- Track 16 : Cybele_82
- Track 17 : FountainFog_81
- Track 18 : Potty_80
- Track 19 : Crestdrop_82
- Track 20 : Annapurna_83
- Track 21 : Rie18_82
- Track 22 : Artiphact_80, Pharpay_80
- Track 23 : Tedro_82
- Track 24 : Poultress_80
- Track 25 : Haunter_83
- Track 26 : Tongui_82
- Track 27 : JDawG_80

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

The start number called the most often in the published annotations is 7, it was called in 16 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artiphact_80, Cybele_82, DannyDe_82, Dauntless_79, Erudite_79, FountainFog_81, Gilda_81, JingleBells_81, Karate_81, MortySmith_78, OhDear_82, OverHedge_80, Pharpay_80, PhunaPhoke_81, Potty_80, Poultruss_80, Rie18_82, SilentWarrior_82, Tedro_82,

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

- Anakin_81, AnnaSerena_82, Hager_82, Haunter_83, Kate_82, Krampus_82, NarutoRun_81, Neptune_81, Rachella_82, Tongui_82,

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

- Aesir_80, Annapurna_83, Chivey_83, CoolCookie_80, Crestdrop_82, FreddieHg_83, Hiddenleaf_83, JDawG_80, Snakehole_82,

Summary by start number:

Start 4:

- Found in 8 of 38 (21.1%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Aesir_80 (EF), Chivey_83 (EF), FreddieHg_83 (EF), Hiddenleaf_83 (EF),

Start 5:

- Found in 22 of 38 (57.9%) of genes in pham
- Manual Annotations of this start: 8 of 34
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Anakin_81 (EF), AnnaSerena_82 (EF), Haunter_83 (EF), Kate_82 (EF), Krampus_82 (EF), NarutoRun_81 (EF), Neptune_81 (EF), Rachella_82 (EF),

Start 6:

- Found in 9 of 38 (23.7%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 33.3% of time when present
- Phage (with cluster) where this start called: CoolCookie_80 (EF), Crestdrop_82 (EF), Snakehole_82 (EF),

Start 7:

- Found in 29 of 38 (76.3%) of genes in pham
- Manual Annotations of this start: 16 of 34
- Called 65.5% of time when present
- Phage (with cluster) where this start called: Artiphact_80 (EF), Cybele_82 (EF), DannyDe_82 (EF), Dauntless_79 (EF), Erudite_79 (EF), FountainFog_81 (EF), Gilda_81 (EF), JingleBells_81 (EF), Karate_81 (EF), MortySmith_78 (EF), OhDear_82 (EF), OverHedge_80 (EF), Pharpay_80 (EF), PhunaPhoke_81 (EF), Potty_80 (EF), Poultruss_80 (EF), Rie18_82 (EF), SilentWarrior_82 (EF), Tedro_82 (EF),

Start 8:

- Found in 19 of 38 (50.0%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 21.1% of time when present

- Phage (with cluster) where this start called: Annapurna_83 (EF), Hager_82 (EF), JDawG_80 (EF), Tongui_82 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 4 was manually annotated 4 times for cluster EF.
- Start number 5 was manually annotated 8 times for cluster EF.
- Start number 6 was manually annotated 2 times for cluster EF.
- Start number 7 was manually annotated 16 times for cluster EF.
- Start number 8 was manually annotated 4 times for cluster EF.

Gene Information:

Gene: Aesir_80 Start: 54421, Stop: 55284, Start Num: 4

Candidate Starts for Aesir_80:

(2, 54415), (Start: 4 @54421 has 4 MA's), (Start: 6 @54424 has 2 MA's), (10, 54550), (11, 54577), (12, 54583), (13, 54586), (24, 54853), (26, 54892), (27, 54904), (28, 54952), (29, 54970), (30, 55003), (32, 55021), (33, 55039), (39, 55195),

Gene: Anakin_81 Start: 54801, Stop: 55664, Start Num: 5

Candidate Starts for Anakin_81:

(Start: 5 @54801 has 8 MA's), (Start: 7 @54804 has 16 MA's), (10, 54930), (11, 54957), (13, 54966), (26, 55272), (27, 55284), (28, 55332), (29, 55350), (30, 55383), (41, 55596),

Gene: AnnaSerena_82 Start: 54835, Stop: 55698, Start Num: 5

Candidate Starts for AnnaSerena_82:

(Start: 5 @54835 has 8 MA's), (Start: 7 @54838 has 16 MA's), (10, 54964), (11, 54991), (13, 55000), (26, 55306), (27, 55318), (28, 55366), (29, 55384), (30, 55417), (41, 55630),

Gene: Annapurna_83 Start: 54426, Stop: 55247, Start Num: 8

Candidate Starts for Annapurna_83:

(2, 54414), (Start: 6 @54423 has 2 MA's), (Start: 8 @54426 has 4 MA's), (9, 54441), (10, 54540), (12, 54567), (14, 54588), (15, 54591), (16, 54597), (17, 54615), (24, 54816), (26, 54855), (27, 54867), (28, 54915), (29, 54933), (30, 54966), (32, 54984), (33, 55002), (39, 55158),

Gene: Artiphact_80 Start: 54828, Stop: 55688, Start Num: 7

Candidate Starts for Artiphact_80:

(Start: 5 @54825 has 8 MA's), (Start: 7 @54828 has 16 MA's), (10, 54954), (11, 54981), (13, 54990), (24, 55257), (26, 55296), (27, 55308), (28, 55356), (29, 55374), (30, 55407), (41, 55620),

Gene: Chivey_83 Start: 54223, Stop: 55083, Start Num: 4

Candidate Starts for Chivey_83:

(2, 54217), (Start: 4 @54223 has 4 MA's), (Start: 6 @54226 has 2 MA's), (Start: 8 @54229 has 4 MA's), (10, 54352), (11, 54379), (12, 54385), (13, 54388), (24, 54652), (26, 54691), (27, 54703), (28, 54751), (29, 54769), (30, 54802), (32, 54820), (33, 54838), (39, 54994),

Gene: CoolCookie_80 Start: 54925, Stop: 55782, Start Num: 6

Candidate Starts for CoolCookie_80:

(Start: 4 @54922 has 4 MA's), (Start: 6 @54925 has 2 MA's), (10, 55051), (11, 55078), (12, 55084), (13, 55087), (24, 55351), (26, 55390), (27, 55402), (28, 55450), (30, 55501), (32, 55519), (33, 55537), (39, 55693),

Gene: Crestdrop_82 Start: 54745, Stop: 55608, Start Num: 6

Candidate Starts for Crestdrop_82:

(2, 54736), (Start: 4 @54742 has 4 MA's), (Start: 6 @54745 has 2 MA's), (Start: 8 @54748 has 4 MA's), (9, 54763), (10, 54862), (11, 54889), (12, 54895), (13, 54898), (15, 54931), (20, 55000), (24, 55165), (26, 55204), (27, 55216), (28, 55264), (29, 55282), (30, 55315), (32, 55333), (33, 55351), (35, 55477), (37, 55498), (41, 55531),

Gene: Cybele_82 Start: 54825, Stop: 55685, Start Num: 7

Candidate Starts for Cybele_82:

(Start: 5 @54822 has 8 MA's), (Start: 7 @54825 has 16 MA's), (Start: 8 @54828 has 4 MA's), (10, 54951), (11, 54978), (13, 54987), (24, 55254), (26, 55293), (27, 55305), (28, 55353), (29, 55371), (30, 55404), (41, 55617),

Gene: DannyDe_82 Start: 54249, Stop: 55088, Start Num: 7

Candidate Starts for DannyDe_82:

(Start: 5 @54246 has 8 MA's), (Start: 7 @54249 has 16 MA's), (Start: 8 @54252 has 4 MA's), (10, 54375), (11, 54402), (13, 54411), (24, 54657), (26, 54696), (27, 54708), (28, 54756), (29, 54774), (30, 54807), (32, 54825), (33, 54843), (40, 55014), (41, 55020), (44, 55047),

Gene: Dauntless_79 Start: 54128, Stop: 54988, Start Num: 7

Candidate Starts for Dauntless_79:

(Start: 7 @54128 has 16 MA's), (10, 54254), (11, 54281), (12, 54287), (13, 54290), (24, 54557), (26, 54596), (27, 54608), (28, 54656), (29, 54674), (30, 54707), (32, 54725), (33, 54743), (39, 54899),

Gene: Erudite_79 Start: 54128, Stop: 54988, Start Num: 7

Candidate Starts for Erudite_79:

(Start: 7 @54128 has 16 MA's), (10, 54254), (11, 54281), (12, 54287), (13, 54290), (24, 54557), (26, 54596), (27, 54608), (28, 54656), (29, 54674), (30, 54707), (32, 54725), (33, 54743), (39, 54899),

Gene: FountainFog_81 Start: 54275, Stop: 55156, Start Num: 7

Candidate Starts for FountainFog_81:

(Start: 5 @54272 has 8 MA's), (Start: 7 @54275 has 16 MA's), (Start: 8 @54278 has 4 MA's), (10, 54401), (11, 54428), (13, 54437), (22, 54656), (24, 54704), (26, 54743), (27, 54755), (28, 54803), (35, 55016), (36, 55028),

Gene: FreddieHg_83 Start: 54240, Stop: 55100, Start Num: 4

Candidate Starts for FreddieHg_83:

(2, 54234), (Start: 4 @54240 has 4 MA's), (Start: 6 @54243 has 2 MA's), (Start: 8 @54246 has 4 MA's), (10, 54369), (11, 54396), (12, 54402), (13, 54405), (24, 54669), (26, 54708), (27, 54720), (28, 54768), (29, 54786), (30, 54819), (32, 54837), (33, 54855), (39, 55011),

Gene: Gilda_81 Start: 54832, Stop: 55692, Start Num: 7

Candidate Starts for Gilda_81:

(Start: 5 @54829 has 8 MA's), (Start: 7 @54832 has 16 MA's), (Start: 8 @54835 has 4 MA's), (10, 54958), (11, 54985), (13, 54994), (23, 55237), (26, 55300), (27, 55312), (28, 55360), (29, 55378), (30, 55411), (41, 55624),

Gene: Hager_82 Start: 53963, Stop: 54835, Start Num: 8

Candidate Starts for Hager_82:

(Start: 7 @53960 has 16 MA's), (Start: 8 @53963 has 4 MA's), (10, 54086), (11, 54113), (13, 54122), (17, 54179), (19, 54182), (24, 54386), (26, 54425), (27, 54437), (28, 54485), (29, 54503), (30, 54536), (31, 54551), (35, 54698), (41, 54752), (43, 54764),

Gene: Haunter_83 Start: 54202, Stop: 55065, Start Num: 5

Candidate Starts for Haunter_83:

(1, 54043), (3, 54196), (Start: 5 @54202 has 8 MA's), (Start: 7 @54205 has 16 MA's), (Start: 8 @54208 has 4 MA's), (10, 54331), (11, 54358), (13, 54367), (26, 54673), (27, 54685), (28, 54733), (29, 54751), (30, 54784), (41, 54997),

Gene: Hiddenleaf_83 Start: 54223, Stop: 55083, Start Num: 4

Candidate Starts for Hiddenleaf_83:

(2, 54217), (Start: 4 @54223 has 4 MA's), (Start: 6 @54226 has 2 MA's), (Start: 8 @54229 has 4 MA's), (10, 54352), (11, 54379), (12, 54385), (13, 54388), (24, 54652), (26, 54691), (27, 54703), (28, 54751), (29, 54769), (30, 54802), (32, 54820), (33, 54838), (39, 54994),

Gene: JDawG_80 Start: 54422, Stop: 55276, Start Num: 8

Candidate Starts for JDawG_80:

(2, 54410), (Start: 4 @54416 has 4 MA's), (Start: 6 @54419 has 2 MA's), (Start: 8 @54422 has 4 MA's), (10, 54545), (11, 54572), (12, 54578), (13, 54581), (24, 54845), (26, 54884), (27, 54896), (28, 54944), (29, 54962), (30, 54995), (32, 55013), (33, 55031), (39, 55187),

Gene: JingleBells_81 Start: 54352, Stop: 55215, Start Num: 7

Candidate Starts for JingleBells_81:

(Start: 5 @54349 has 8 MA's), (Start: 7 @54352 has 16 MA's), (10, 54478), (11, 54505), (12, 54511), (13, 54514), (24, 54778), (26, 54817), (27, 54829), (28, 54877), (29, 54895), (30, 54928), (32, 54946), (33, 54964), (37, 55105), (41, 55138),

Gene: Karate_81 Start: 54532, Stop: 55410, Start Num: 7

Candidate Starts for Karate_81:

(Start: 5 @54529 has 8 MA's), (Start: 7 @54532 has 16 MA's), (13, 54691), (15, 54724), (18, 54760), (21, 54895), (24, 54979), (25, 55003), (26, 55018), (27, 55030), (28, 55078), (29, 55096), (30, 55129), (32, 55147), (33, 55165), (34, 55252), (38, 55321),

Gene: Kate_82 Start: 54746, Stop: 55609, Start Num: 5

Candidate Starts for Kate_82:

(Start: 5 @54746 has 8 MA's), (Start: 7 @54749 has 16 MA's), (10, 54875), (11, 54902), (13, 54911), (26, 55217), (27, 55229), (28, 55277), (29, 55295), (30, 55328), (41, 55541),

Gene: Krampus_82 Start: 54836, Stop: 55699, Start Num: 5

Candidate Starts for Krampus_82:

(Start: 5 @54836 has 8 MA's), (Start: 7 @54839 has 16 MA's), (10, 54965), (11, 54992), (13, 55001), (26, 55307), (27, 55319), (28, 55367), (29, 55385), (30, 55418), (41, 55631),

Gene: MortySmith_78 Start: 53602, Stop: 54462, Start Num: 7

Candidate Starts for MortySmith_78:

(Start: 7 @53602 has 16 MA's), (10, 53728), (11, 53755), (12, 53761), (13, 53764), (24, 54031), (26, 54070), (27, 54082), (28, 54130), (29, 54148), (30, 54181), (32, 54199), (33, 54217), (39, 54373),

Gene: NarutoRun_81 Start: 54801, Stop: 55664, Start Num: 5

Candidate Starts for NarutoRun_81:

(Start: 5 @54801 has 8 MA's), (Start: 7 @54804 has 16 MA's), (10, 54930), (11, 54957), (13, 54966), (26, 55272), (27, 55284), (28, 55332), (29, 55350), (30, 55383), (41, 55596),

Gene: Neptune_81 Start: 54822, Stop: 55685, Start Num: 5

Candidate Starts for Neptune_81:

(Start: 5 @54822 has 8 MA's), (Start: 7 @54825 has 16 MA's), (Start: 8 @54828 has 4 MA's), (10, 54951), (11, 54978), (13, 54987), (24, 55254), (26, 55293), (27, 55305), (28, 55353), (29, 55371), (30, 55404), (41, 55617),

Gene: OhDear_82 Start: 54802, Stop: 55662, Start Num: 7

Candidate Starts for OhDear_82:

(Start: 5 @54799 has 8 MA's), (Start: 7 @54802 has 16 MA's), (Start: 8 @54805 has 4 MA's), (10, 54928), (11, 54955), (13, 54964), (26, 55270), (27, 55282), (28, 55330), (29, 55348), (30, 55381), (41, 55594),

Gene: OverHedge_80 Start: 54691, Stop: 55551, Start Num: 7

Candidate Starts for OverHedge_80:

(Start: 5 @54688 has 8 MA's), (Start: 7 @54691 has 16 MA's), (Start: 8 @54694 has 4 MA's), (10, 54817), (11, 54844), (13, 54853), (23, 55096), (26, 55159), (27, 55171), (28, 55219), (29, 55237), (30, 55270), (41, 55483),

Gene: Pharpay_80 Start: 54849, Stop: 55709, Start Num: 7

Candidate Starts for Pharpay_80:

(Start: 5 @54846 has 8 MA's), (Start: 7 @54849 has 16 MA's), (10, 54975), (11, 55002), (13, 55011), (24, 55278), (26, 55317), (27, 55329), (28, 55377), (29, 55395), (30, 55428), (41, 55641),

Gene: PhunaPhoke_81 Start: 54819, Stop: 55679, Start Num: 7

Candidate Starts for PhunaPhoke_81:

(Start: 5 @54816 has 8 MA's), (Start: 7 @54819 has 16 MA's), (Start: 8 @54822 has 4 MA's), (10, 54945), (11, 54972), (13, 54981), (23, 55224), (26, 55287), (27, 55299), (28, 55347), (29, 55365), (30, 55398), (41, 55611),

Gene: Potty_80 Start: 54749, Stop: 55609, Start Num: 7

Candidate Starts for Potty_80:

(Start: 5 @54746 has 8 MA's), (Start: 7 @54749 has 16 MA's), (10, 54875), (11, 54902), (13, 54911), (23, 55154), (26, 55217), (27, 55229), (28, 55277), (29, 55295), (30, 55328), (41, 55541),

Gene: Poultress_80 Start: 54704, Stop: 55555, Start Num: 7

Candidate Starts for Poultress_80:

(Start: 7 @54704 has 16 MA's), (9, 54722), (11, 54848), (13, 54857), (24, 55124), (26, 55163), (27, 55175), (28, 55223), (29, 55241), (41, 55487),

Gene: Rachella_82 Start: 54827, Stop: 55690, Start Num: 5

Candidate Starts for Rachella_82:

(Start: 5 @54827 has 8 MA's), (Start: 7 @54830 has 16 MA's), (10, 54956), (11, 54983), (13, 54992), (26, 55298), (27, 55310), (28, 55358), (29, 55376), (30, 55409), (41, 55622),

Gene: Rie18_82 Start: 54561, Stop: 55439, Start Num: 7

Candidate Starts for Rie18_82:

(Start: 7 @54561 has 16 MA's), (Start: 8 @54564 has 4 MA's), (11, 54714), (13, 54723), (24, 54990), (26, 55029), (27, 55041), (28, 55089), (29, 55107), (30, 55140), (31, 55155), (35, 55302), (37, 55323), (41, 55356), (43, 55368),

Gene: SilentWarrior_82 Start: 54213, Stop: 55076, Start Num: 7

Candidate Starts for SilentWarrior_82:

(Start: 5 @54210 has 8 MA's), (Start: 7 @54213 has 16 MA's), (10, 54339), (11, 54366), (12, 54372), (13, 54375), (24, 54639), (26, 54678), (27, 54690), (28, 54738), (29, 54756), (30, 54789), (32, 54807), (33, 54825), (37, 54966), (41, 54999),

Gene: Snakehole_82 Start: 54175, Stop: 55032, Start Num: 6

Candidate Starts for Snakehole_82:

(2, 54166), (Start: 4 @54172 has 4 MA's), (Start: 6 @54175 has 2 MA's), (Start: 8 @54178 has 4 MA's), (10, 54301), (11, 54328), (12, 54334), (13, 54337), (24, 54601), (26, 54640), (27, 54652), (28, 54700), (29, 54718), (30, 54751), (32, 54769), (33, 54787), (39, 54943),

Gene: Tedro_82 Start: 54322, Stop: 55179, Start Num: 7

Candidate Starts for Tedro_82:

(Start: 5 @54319 has 8 MA's), (Start: 7 @54322 has 16 MA's), (10, 54448), (11, 54475), (12, 54481), (13, 54484), (24, 54748), (26, 54787), (27, 54799), (28, 54847), (29, 54865), (30, 54898), (34, 55021), (38, 55090),

Gene: Tongui_82 Start: 54346, Stop: 55221, Start Num: 8

Candidate Starts for Tongui_82:

(Start: 7 @54343 has 16 MA's), (Start: 8 @54346 has 4 MA's), (10, 54469), (11, 54496), (13, 54505), (21, 54688), (24, 54772), (26, 54811), (27, 54823), (28, 54871), (35, 55084), (36, 55096), (37, 55105), (41, 55138), (42, 55147), (43, 55150),