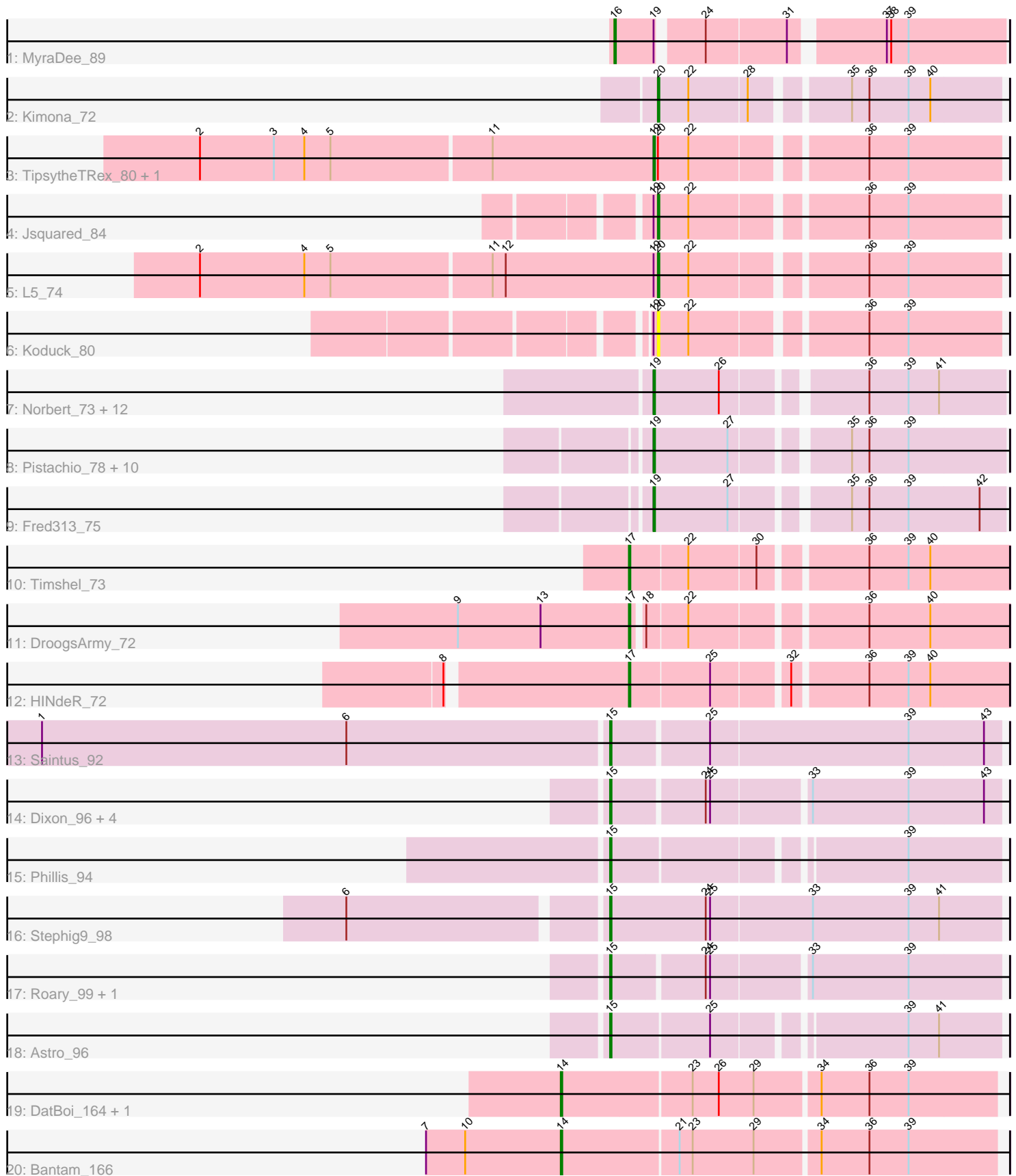


Pham 2027



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 2027 Report

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

Pham number 2027 has 49 members, 5 are drafts.

Phages represented in each track:

- Track 1 : MyraDee_89
- Track 2 : Kimona_72
- Track 3 : TopsytheTRex_80, Serenity_84
- Track 4 : Jsquared_84
- Track 5 : L5_74
- Track 6 : Koduck_80
- Track 7 : Norbert_73, Noella_78, Lambert1_77, Panamaxus_74, Veracruz_74, Popcicle_77, ResDef_75, Texage_75, Margo_77, Hookmount_77, Pocahontas_76, Todacoro_77, QuinnKiro_76
- Track 8 : Pistachio_78, Idleandcovert_78, Giroux_76, Heathen_76, Bugatti_77, SaturnRing_77, Puppy_78, TNguyen7_78, BlueBird_80, Scout_76, HelDan_77
- Track 9 : Fred313_75
- Track 10 : Timshel_73
- Track 11 : DroogsArmy_72
- Track 12 : HINdeR_72
- Track 13 : Saintus_92
- Track 14 : Dixon_96, Danforth_98, Smeadley_97, Expelliarmus_94, Groundhog_94
- Track 15 : Phillis_94
- Track 16 : Stephig9_98
- Track 17 : Roary_99, NearlyHeadless_98
- Track 18 : Astro_96
- Track 19 : DatBoi_164, SpeedDemon_1620
- Track 20 : Bantam_166

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

The start number called the most often in the published annotations is 19, it was called in 23 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueBird_80, Bugatti_77, Fred313_75, Giroux_76, Heathen_76, HelDan_77, Hookmount_77, Idleandcovert_78, Lambert1_77, Margo_77, Noella_78, Norbert_73, Panamaxus_74, Pistachio_78, Pocahontas_76, Popcicle_77, Puppy_78, QuinnKiro_76, ResDef_75, SaturnRing_77, Scout_76, Serenity_84, TNguyen7_78,

Texage_75, TipsytheTRex_80, Todacoro_77, Veracruz_74,

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

- Jsquared_84, Koduck_80, L5_74, MyraDee_89,

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

- Astro_96, Bantam_166, Danforth_98, DatBoi_164, Dixon_96, DroogsArmy_72, Expelliarmus_94, Groundhog_94, HINdeR_72, Kimona_72, NearlyHeadless_98, Phillis_94, Roary_99, Saintus_92, Smeadley_97, SpeedDemon_1620, Stephig9_98, Timshel_73,

Summary by start number:

Start 14:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_166 (DL), DatBoi_164 (DL), SpeedDemon_1620 (DL),

Start 15:

- Found in 11 of 49 (22.4%) of genes in pham
- Manual Annotations of this start: 11 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_96 (A8), Danforth_98 (A8), Dixon_96 (A8), Expelliarmus_94 (A8), Groundhog_94 (A8), NearlyHeadless_98 (A8), Phillis_94 (A8), Roary_99 (A8), Saintus_92 (A8), Smeadley_97 (A8), Stephig9_98 (A8),

Start 16:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_89 (A18),

Start 17:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_72 (A7), HINdeR_72 (A7), Timshel_73 (A7),

Start 19:

- Found in 31 of 49 (63.3%) of genes in pham
- Manual Annotations of this start: 23 of 44
- Called 87.1% of time when present
- Phage (with cluster) where this start called: BlueBird_80 (A3), Bugatti_77 (A3), Fred313_75 (A3), Giroux_76 (A3), Heathen_76 (A3), HelDan_77 (A3), Hookmount_77 (A3), Idleandcovert_78 (A3), Lambert1_77 (A3), Margo_77 (A3), Noella_78 (A3), Norbert_73 (A3), Panamaxus_74 (A3), Pistachio_78 (A3), Pocahontas_76 (A3), Popcicle_77 (A3), Puppy_78 (A3), QuinnKiro_76 (A3), ResDef_75 (A3), SaturnRing_77 (A3), Scout_76 (A3), Serenity_84 (A2), TNguyen7_78 (A3), Texage_75 (A3), TipsytheTRex_80 (A2), Todacoro_77 (A3),

Veracruz_74 (A3),

Start 20:

- Found in 6 of 49 (12.2%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Jsquared_84 (A2), Kimona_72 (A19), Koduck_80 (A2), L5_74 (A2),

Summary by clusters:

There are 7 clusters represented in this pham: DL, A19, A18, A3, A2, A7, A8,

Info for manual annotations of cluster A18:

- Start number 16 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 20 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 19 was manually annotated 2 times for cluster A2.
- Start number 20 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 19 was manually annotated 21 times for cluster A3.

Info for manual annotations of cluster A7:

- Start number 17 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 15 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster DL:

- Start number 14 was manually annotated 3 times for cluster DL.

Gene Information:

Gene: Astro_96 Start: 50275, Stop: 50027, Start Num: 15

Candidate Starts for Astro_96:

(Start: 15 @50275 has 11 MA's), (25, 50209), (39, 50089), (41, 50068),

Gene: Bantam_166 Start: 89133, Stop: 88843, Start Num: 14

Candidate Starts for Bantam_166:

(7, 89226), (10, 89199), (Start: 14 @89133 has 3 MA's), (21, 89055), (23, 89046), (29, 89004), (34, 88962), (36, 88929), (39, 88902),

Gene: BlueBird_80 Start: 45605, Stop: 45381, Start Num: 19

Candidate Starts for BlueBird_80:

(Start: 19 @45605 has 23 MA's), (27, 45554), (35, 45485), (36, 45473), (39, 45446),

Gene: Bugatti_77 Start: 45605, Stop: 45381, Start Num: 19

Candidate Starts for Bugatti_77:

(Start: 19 @45605 has 23 MA's), (27, 45554), (35, 45485), (36, 45473), (39, 45446),

Gene: Danforth_98 Start: 50435, Stop: 50181, Start Num: 15

Candidate Starts for Danforth_98:

(Start: 15 @50435 has 11 MA's), (24, 50375), (25, 50372), (33, 50309), (39, 50243), (43, 50192),

Gene: DatBoi_164 Start: 89086, Stop: 88796, Start Num: 14

Candidate Starts for DatBoi_164:

(Start: 14 @89086 has 3 MA's), (23, 88999), (26, 88981), (29, 88957), (34, 88915), (36, 88882), (39, 88855),

Gene: Dixon_96 Start: 49840, Stop: 49586, Start Num: 15

Candidate Starts for Dixon_96:

(Start: 15 @49840 has 11 MA's), (24, 49780), (25, 49777), (33, 49714), (39, 49648), (43, 49597),

Gene: DroogsArmy_72 Start: 48061, Stop: 47822, Start Num: 17

Candidate Starts for DroogsArmy_72:

(9, 48178), (13, 48121), (Start: 17 @48061 has 3 MA's), (18, 48055), (22, 48028), (36, 47917), (40, 47875),

Gene: Expelliarmus_94 Start: 50054, Stop: 49800, Start Num: 15

Candidate Starts for Expelliarmus_94:

(Start: 15 @50054 has 11 MA's), (24, 49994), (25, 49991), (33, 49928), (39, 49862), (43, 49811),

Gene: Fred313_75 Start: 45223, Stop: 44999, Start Num: 19

Candidate Starts for Fred313_75:

(Start: 19 @45223 has 23 MA's), (27, 45172), (35, 45103), (36, 45091), (39, 45064), (42, 45016),

Gene: Giroux_76 Start: 45604, Stop: 45380, Start Num: 19

Candidate Starts for Giroux_76:

(Start: 19 @45604 has 23 MA's), (27, 45553), (35, 45484), (36, 45472), (39, 45445),

Gene: Groundhog_94 Start: 50110, Stop: 49856, Start Num: 15

Candidate Starts for Groundhog_94:

(Start: 15 @50110 has 11 MA's), (24, 50050), (25, 50047), (33, 49984), (39, 49918), (43, 49867),

Gene: HINdeR_72 Start: 47442, Stop: 47197, Start Num: 17

Candidate Starts for HINdeR_72:

(8, 47559), (Start: 17 @47442 has 3 MA's), (25, 47388), (32, 47340), (36, 47292), (39, 47265), (40, 47250),

Gene: Heathen_76 Start: 45318, Stop: 45094, Start Num: 19

Candidate Starts for Heathen_76:

(Start: 19 @45318 has 23 MA's), (27, 45267), (35, 45198), (36, 45186), (39, 45159),

Gene: HelDan_77 Start: 45534, Stop: 45310, Start Num: 19

Candidate Starts for HelDan_77:

(Start: 19 @45534 has 23 MA's), (27, 45483), (35, 45414), (36, 45402), (39, 45375),

Gene: Hookmount_77 Start: 45558, Stop: 45334, Start Num: 19

Candidate Starts for Hookmount_77:

(Start: 19 @45558 has 23 MA's), (26, 45513), (36, 45426), (39, 45399), (41, 45378),

Gene: Idleandcovert_78 Start: 45605, Stop: 45381, Start Num: 19

Candidate Starts for Idleandcovert_78:

(Start: 19 @45605 has 23 MA's), (27, 45554), (35, 45485), (36, 45473), (39, 45446),

Gene: Jsquared_84 Start: 46389, Stop: 46171, Start Num: 20

Candidate Starts for Jsquared_84:

(Start: 19 @46392 has 23 MA's), (Start: 20 @46389 has 3 MA's), (22, 46368), (36, 46260), (39, 46233),

Gene: Kimona_72 Start: 43820, Stop: 43602, Start Num: 20

Candidate Starts for Kimona_72:

(Start: 20 @43820 has 3 MA's), (22, 43799), (28, 43760), (35, 43703), (36, 43691), (39, 43664), (40, 43649),

Gene: Koduck_80 Start: 45731, Stop: 45513, Start Num: 20

Candidate Starts for Koduck_80:

(Start: 19 @45734 has 23 MA's), (Start: 20 @45731 has 3 MA's), (22, 45710), (36, 45602), (39, 45575),

Gene: L5_74 Start: 45884, Stop: 45666, Start Num: 20

Candidate Starts for L5_74:

(2, 46196), (4, 46124), (5, 46106), (11, 45998), (12, 45989), (Start: 19 @45887 has 23 MA's), (Start: 20 @45884 has 3 MA's), (22, 45863), (36, 45755), (39, 45728),

Gene: Lambert1_77 Start: 45559, Stop: 45335, Start Num: 19

Candidate Starts for Lambert1_77:

(Start: 19 @45559 has 23 MA's), (26, 45514), (36, 45427), (39, 45400), (41, 45379),

Gene: Margo_77 Start: 45584, Stop: 45360, Start Num: 19

Candidate Starts for Margo_77:

(Start: 19 @45584 has 23 MA's), (26, 45539), (36, 45452), (39, 45425), (41, 45404),

Gene: MyraDee_89 Start: 48286, Stop: 48041, Start Num: 16

Candidate Starts for MyraDee_89:

(Start: 16 @48286 has 1 MA's), (Start: 19 @48259 has 23 MA's), (24, 48232), (31, 48178), (37, 48121), (38, 48118), (39, 48106),

Gene: NearlyHeadless_98 Start: 50172, Stop: 49918, Start Num: 15

Candidate Starts for NearlyHeadless_98:

(Start: 15 @50172 has 11 MA's), (24, 50112), (25, 50109), (33, 50046), (39, 49980),

Gene: Noella_78 Start: 45560, Stop: 45336, Start Num: 19

Candidate Starts for Noella_78:

(Start: 19 @45560 has 23 MA's), (26, 45515), (36, 45428), (39, 45401), (41, 45380),

Gene: Norbert_73 Start: 45557, Stop: 45333, Start Num: 19

Candidate Starts for Norbert_73:

(Start: 19 @45557 has 23 MA's), (26, 45512), (36, 45425), (39, 45398), (41, 45377),

Gene: Panamaxus_74 Start: 45559, Stop: 45335, Start Num: 19

Candidate Starts for Panamaxus_74:

(Start: 19 @45559 has 23 MA's), (26, 45514), (36, 45427), (39, 45400), (41, 45379),

Gene: Phillis_94 Start: 49179, Stop: 48931, Start Num: 15

Candidate Starts for Phillis_94:

(Start: 15 @49179 has 11 MA's), (39, 48993),

Gene: Pistachio_78 Start: 45152, Stop: 44928, Start Num: 19

Candidate Starts for Pistachio_78:

(Start: 19 @45152 has 23 MA's), (27, 45101), (35, 45032), (36, 45020), (39, 44993),

Gene: Pocahontas_76 Start: 45555, Stop: 45331, Start Num: 19

Candidate Starts for Pocahontas_76:

(Start: 19 @45555 has 23 MA's), (26, 45510), (36, 45423), (39, 45396), (41, 45375),

Gene: Popcicle_77 Start: 45555, Stop: 45331, Start Num: 19

Candidate Starts for Popcicle_77:

(Start: 19 @45555 has 23 MA's), (26, 45510), (36, 45423), (39, 45396), (41, 45375),

Gene: Puppy_78 Start: 45222, Stop: 44998, Start Num: 19

Candidate Starts for Puppy_78:

(Start: 19 @45222 has 23 MA's), (27, 45171), (35, 45102), (36, 45090), (39, 45063),

Gene: QuinnKiro_76 Start: 45558, Stop: 45334, Start Num: 19

Candidate Starts for QuinnKiro_76:

(Start: 19 @45558 has 23 MA's), (26, 45513), (36, 45426), (39, 45399), (41, 45378),

Gene: ResDef_75 Start: 45561, Stop: 45337, Start Num: 19

Candidate Starts for ResDef_75:

(Start: 19 @45561 has 23 MA's), (26, 45516), (36, 45429), (39, 45402), (41, 45381),

Gene: Roary_99 Start: 50309, Stop: 50055, Start Num: 15

Candidate Starts for Roary_99:

(Start: 15 @50309 has 11 MA's), (24, 50249), (25, 50246), (33, 50183), (39, 50117),

Gene: Saintus_92 Start: 47043, Stop: 46783, Start Num: 15

Candidate Starts for Saintus_92:

(1, 47430), (6, 47220), (Start: 15 @47043 has 11 MA's), (25, 46980), (39, 46845), (43, 46794),

Gene: SaturnRing_77 Start: 45605, Stop: 45381, Start Num: 19

Candidate Starts for SaturnRing_77:

(Start: 19 @45605 has 23 MA's), (27, 45554), (35, 45485), (36, 45473), (39, 45446),

Gene: Scout_76 Start: 44781, Stop: 44557, Start Num: 19

Candidate Starts for Scout_76:

(Start: 19 @44781 has 23 MA's), (27, 44730), (35, 44661), (36, 44649), (39, 44622),

Gene: Serenity_84 Start: 46452, Stop: 46231, Start Num: 19

Candidate Starts for Serenity_84:

(2, 46761), (3, 46710), (4, 46689), (5, 46671), (11, 46563), (Start: 19 @46452 has 23 MA's), (Start: 20 @46449 has 3 MA's), (22, 46428), (36, 46320), (39, 46293),

Gene: Smeadley_97 Start: 50176, Stop: 49922, Start Num: 15

Candidate Starts for Smeadley_97:

(Start: 15 @50176 has 11 MA's), (24, 50116), (25, 50113), (33, 50050), (39, 49984), (43, 49933),

Gene: SpeedDemon_1620 Start: 90515, Stop: 90225, Start Num: 14

Candidate Starts for SpeedDemon_1620:

(Start: 14 @90515 has 3 MA's), (23, 90428), (26, 90410), (29, 90386), (34, 90344), (36, 90311), (39, 90284),

Gene: Stephig9_98 Start: 50539, Stop: 50273, Start Num: 15

Candidate Starts for Stephig9_98:

(6, 50707), (Start: 15 @50539 has 11 MA's), (24, 50473), (25, 50470), (33, 50401), (39, 50335), (41, 50314),

Gene: TNguyen7_78 Start: 45563, Stop: 45339, Start Num: 19

Candidate Starts for TNguyen7_78:

(Start: 19 @45563 has 23 MA's), (27, 45512), (35, 45443), (36, 45431), (39, 45404),

Gene: Texage_75 Start: 45559, Stop: 45335, Start Num: 19

Candidate Starts for Texage_75:

(Start: 19 @45559 has 23 MA's), (26, 45514), (36, 45427), (39, 45400), (41, 45379),

Gene: Timshel_73 Start: 47878, Stop: 47633, Start Num: 17

Candidate Starts for Timshel_73:

(Start: 17 @47878 has 3 MA's), (22, 47839), (30, 47794), (36, 47728), (39, 47701), (40, 47686),

Gene: TipsytheTRex_80 Start: 46454, Stop: 46233, Start Num: 19

Candidate Starts for TipsytheTRex_80:

(2, 46763), (3, 46712), (4, 46691), (5, 46673), (11, 46565), (Start: 19 @46454 has 23 MA's), (Start: 20 @46451 has 3 MA's), (22, 46430), (36, 46322), (39, 46295),

Gene: Todacoro_77 Start: 45558, Stop: 45334, Start Num: 19

Candidate Starts for Todacoro_77:

(Start: 19 @45558 has 23 MA's), (26, 45513), (36, 45426), (39, 45399), (41, 45378),

Gene: Veracruz_74 Start: 45559, Stop: 45335, Start Num: 19

Candidate Starts for Veracruz_74:

(Start: 19 @45559 has 23 MA's), (26, 45514), (36, 45427), (39, 45400), (41, 45379),