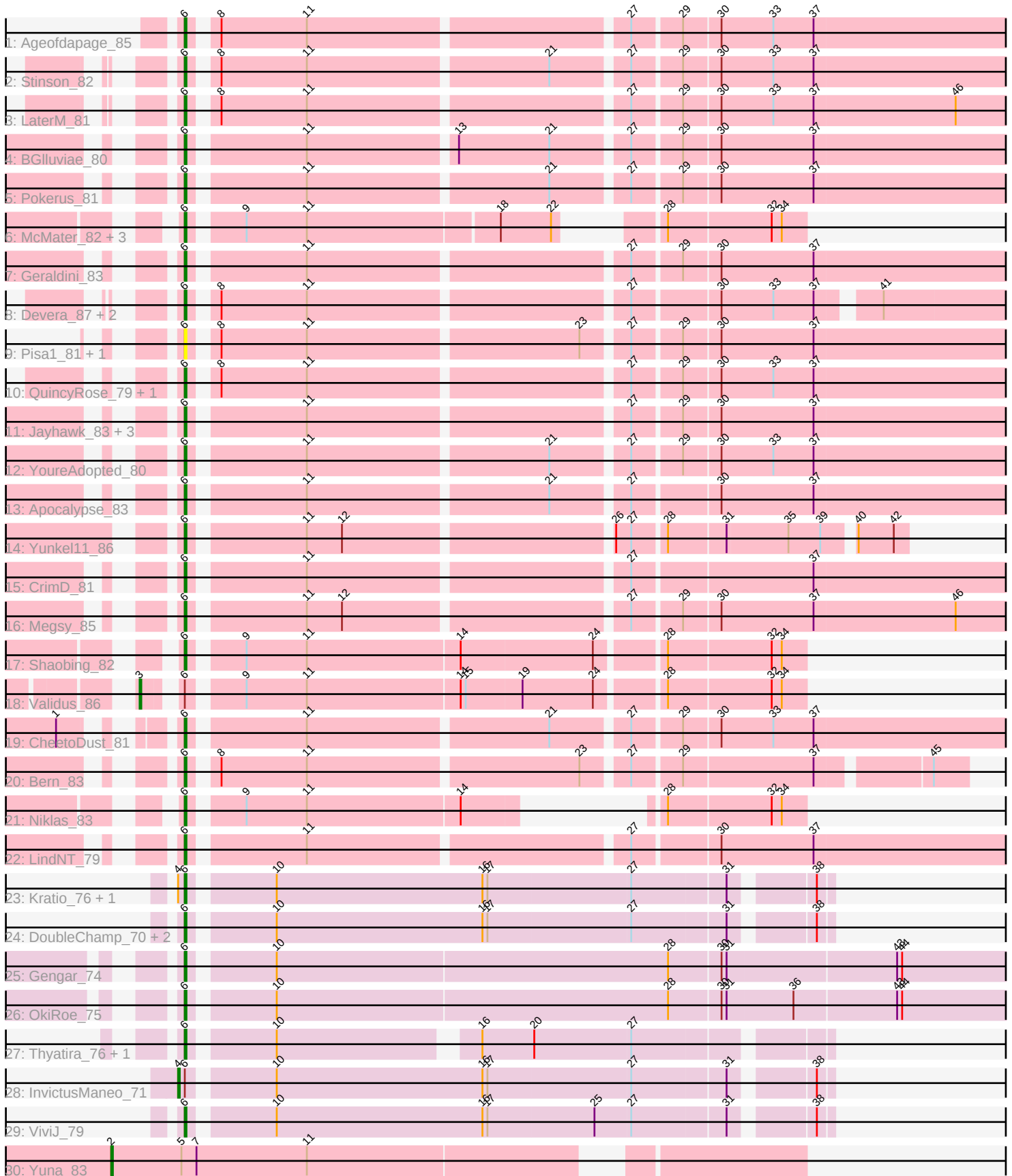


Pham 280589



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 280589 Report

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

Pham number 280589 has 44 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Ageofdapage_85
- Track 2 : Stinson_82
- Track 3 : LaterM_81
- Track 4 : BGlluviae_80
- Track 5 : Pokerus_81
- Track 6 : McMater_82, Peanam_83, Dartin_82, Richo_82
- Track 7 : Geraldini_83
- Track 8 : Devera_87, Dole_84, Illumine_85
- Track 9 : Pisa1_81, Pisa4_75
- Track 10 : QuincyRose_79, Ganymede_81
- Track 11 : Jayhawk_83, Rapunzel97_83, BarrelRoll_81, Mynx_82
- Track 12 : YoureAdopted_80
- Track 13 : Apocalypse_83
- Track 14 : Yunkel11_86
- Track 15 : CrimD_81
- Track 16 : Megsy_85
- Track 17 : Shaobing_82
- Track 18 : Validus_86
- Track 19 : CheetoDust_81
- Track 20 : Bern_83
- Track 21 : Niklas_83
- Track 22 : LindNT_79
- Track 23 : Kratio_76, Agent47_73
- Track 24 : DoubleChamp_70, BananenDer11_70, Collard_71
- Track 25 : Gengar_74
- Track 26 : OkiRoe_75
- Track 27 : Thyatira_76, Waterfoul_75
- Track 28 : InvictusManeo_71
- Track 29 : ViviJ_79
- Track 30 : Yuna_83

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

The start number called the most often in the published annotations is 6, it was called in 34 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agent47_73, Ageofdapage_85, Apocalypse_83, BGlluviae_80, BananenDer11_70, BarrelRoll_81, Bern_83, CheetoDust_81, Collard_71, CrimD_81, Dartin_82, Devera_87, Dole_84, DoubleChamp_70, Ganymede_81, Gengar_74, Geraldini_83, Illumine_85, Jayhawk_83, Kratio_76, LaterM_81, LindNT_79, McMater_82, Megsy_85, Mynx_82, Niklas_83, OkiRoe_75, Peanam_83, Pisa1_81, Pisa4_75, Pokerus_81, QuincyRose_79, Rapunzel97_83, Richo_82, Shaobing_82, Stinson_82, Thyatira_76, ViviJ_79, Waterfoul_75, YoureAdopted_80, Yunkel11_86,

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

- InvictusManeo_71, Validus_86,

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

- Yuna_83,

Summary by start number:

Start 2:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yuna_83 (K6),

Start 3:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Validus_86 (K1),

Start 4:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 33.3% of time when present
- Phage (with cluster) where this start called: InvictusManeo_71 (K5),

Start 6:

- Found in 43 of 44 (97.7%) of genes in pham
- Manual Annotations of this start: 34 of 37
- Called 95.3% of time when present
- Phage (with cluster) where this start called: Agent47_73 (K5), Ageofdapage_85 (K1), Apocalypse_83 (K1), BGlluviae_80 (K1), BananenDer11_70 (K5), BarrelRoll_81 (K1), Bern_83 (K1), CheetoDust_81 (K1), Collard_71 (K5), CrimD_81 (K1), Dartin_82 (K1), Devera_87 (K1), Dole_84 (K1), DoubleChamp_70 (K5), Ganymede_81 (K1), Gengar_74 (K5), Geraldini_83 (K1), Illumine_85 (K1), Jayhawk_83 (K1), Kratio_76 (K5), LaterM_81 (K1), LindNT_79 (K1), McMater_82 (K1), Megsy_85 (K1), Mynx_82 (K1), Niklas_83 (K1), OkiRoe_75 (K5), Peanam_83 (K1), Pisa1_81 (K1), Pisa4_75 (K1), Pokerus_81 (K1), QuincyRose_79 (K1), Rapunzel97_83 (K1), Richo_82 (K1), Shaobing_82 (K1), Stinson_82 (K1), Thyatira_76 (K5), ViviJ_79 (K5), Waterfoul_75 (K5), YoureAdopted_80 (K1), Yunkel11_86 (K1),

Summary by clusters:

There are 3 clusters represented in this pham: K1, K6, K5,

Info for manual annotations of cluster K1:

- Start number 3 was manually annotated 1 time for cluster K1.
- Start number 6 was manually annotated 26 times for cluster K1.

Info for manual annotations of cluster K5:

- Start number 4 was manually annotated 1 time for cluster K5.
- Start number 6 was manually annotated 8 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 2 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: Agent47_73 Start: 49176, Stop: 49535, Start Num: 6

Candidate Starts for Agent47_73:

(Start: 4 @49173 has 1 MA's), (Start: 6 @49176 has 34 MA's), (10, 49221), (16, 49344), (17, 49347), (27, 49431), (31, 49485), (38, 49527),

Gene: Ageofdapage_85 Start: 53683, Stop: 54159, Start Num: 6

Candidate Starts for Ageofdapage_85:

(Start: 6 @53683 has 34 MA's), (8, 53695), (11, 53746), (27, 53926), (29, 53953), (30, 53974), (33, 54004), (37, 54028),

Gene: Apocalypse_83 Start: 53113, Stop: 53589, Start Num: 6

Candidate Starts for Apocalypse_83:

(Start: 6 @53113 has 34 MA's), (11, 53176), (21, 53314), (27, 53356), (30, 53404), (37, 53458),

Gene: BGlluviae_80 Start: 52433, Stop: 52909, Start Num: 6

Candidate Starts for BGlluviae_80:

(Start: 6 @52433 has 34 MA's), (11, 52496), (13, 52580), (21, 52634), (27, 52676), (29, 52703), (30, 52724), (37, 52778),

Gene: BananenDer11_70 Start: 49137, Stop: 49496, Start Num: 6

Candidate Starts for BananenDer11_70:

(Start: 6 @49137 has 34 MA's), (10, 49182), (16, 49305), (17, 49308), (27, 49392), (31, 49446), (38, 49488),

Gene: BarrelRoll_81 Start: 52830, Stop: 53306, Start Num: 6

Candidate Starts for BarrelRoll_81:

(Start: 6 @52830 has 34 MA's), (11, 52893), (27, 53073), (29, 53100), (30, 53121), (37, 53175),

Gene: Bern_83 Start: 51564, Stop: 51989, Start Num: 6

Candidate Starts for Bern_83:

(Start: 6 @51564 has 34 MA's), (8, 51576), (11, 51627), (23, 51783), (27, 51807), (29, 51834), (37, 51909), (45, 51969),

Gene: CheetoDust_81 Start: 52251, Stop: 52727, Start Num: 6

Candidate Starts for CheetoDust_81:

(1, 52212), (Start: 6 @52251 has 34 MA's), (11, 52314), (21, 52452), (27, 52494), (29, 52521), (30, 52542), (33, 52572), (37, 52596),

Gene: Collard_71 Start: 49137, Stop: 49496, Start Num: 6

Candidate Starts for Collard_71:

(Start: 6 @49137 has 34 MA's), (10, 49182), (16, 49305), (17, 49308), (27, 49392), (31, 49446), (38, 49488),

Gene: CrimD_81 Start: 52883, Stop: 53359, Start Num: 6

Candidate Starts for CrimD_81:

(Start: 6 @52883 has 34 MA's), (11, 52946), (27, 53126), (37, 53228),

Gene: Dartin_82 Start: 53736, Stop: 54047, Start Num: 6

Candidate Starts for Dartin_82:

(Start: 6 @53736 has 34 MA's), (9, 53763), (11, 53799), (18, 53910), (22, 53940), (28, 53967), (32, 54027), (34, 54033),

Gene: Devera_87 Start: 53666, Stop: 54112, Start Num: 6

Candidate Starts for Devera_87:

(Start: 6 @53666 has 34 MA's), (8, 53678), (11, 53729), (27, 53909), (30, 53957), (33, 53987), (37, 54011), (41, 54041),

Gene: Dole_84 Start: 53669, Stop: 54115, Start Num: 6

Candidate Starts for Dole_84:

(Start: 6 @53669 has 34 MA's), (8, 53681), (11, 53732), (27, 53912), (30, 53960), (33, 53990), (37, 54014), (41, 54044),

Gene: DoubleChamp_70 Start: 49137, Stop: 49496, Start Num: 6

Candidate Starts for DoubleChamp_70:

(Start: 6 @49137 has 34 MA's), (10, 49182), (16, 49305), (17, 49308), (27, 49392), (31, 49446), (38, 49488),

Gene: Ganymede_81 Start: 52871, Stop: 53347, Start Num: 6

Candidate Starts for Ganymede_81:

(Start: 6 @52871 has 34 MA's), (8, 52883), (11, 52934), (27, 53114), (29, 53141), (30, 53162), (33, 53192), (37, 53216),

Gene: Gengar_74 Start: 51188, Stop: 51751, Start Num: 6

Candidate Starts for Gengar_74:

(Start: 6 @51188 has 34 MA's), (10, 51233), (28, 51464), (30, 51494), (31, 51497), (43, 51596), (44, 51599),

Gene: Geraldini_83 Start: 52891, Stop: 53367, Start Num: 6

Candidate Starts for Geraldini_83:

(Start: 6 @52891 has 34 MA's), (11, 52954), (27, 53134), (29, 53161), (30, 53182), (37, 53236),

Gene: Illumine_85 Start: 53668, Stop: 54114, Start Num: 6

Candidate Starts for Illumine_85:

(Start: 6 @53668 has 34 MA's), (8, 53680), (11, 53731), (27, 53911), (30, 53959), (33, 53989), (37, 54013), (41, 54043),

Gene: InvictusManeo_71 Start: 49177, Stop: 49539, Start Num: 4

Candidate Starts for InvictusManeo_71:

(Start: 4 @49177 has 1 MA's), (Start: 6 @49180 has 34 MA's), (10, 49225), (16, 49348), (17, 49351), (27, 49435), (31, 49489), (38, 49531),

Gene: Jayhawk_83 Start: 52890, Stop: 53366, Start Num: 6

Candidate Starts for Jayhawk_83:

(Start: 6 @52890 has 34 MA's), (11, 52953), (27, 53133), (29, 53160), (30, 53181), (37, 53235),

Gene: Kratio_76 Start: 50738, Stop: 51097, Start Num: 6

Candidate Starts for Kratio_76:

(Start: 4 @50735 has 1 MA's), (Start: 6 @50738 has 34 MA's), (10, 50783), (16, 50906), (17, 50909), (27, 50993), (31, 51047), (38, 51089),

Gene: LaterM_81 Start: 53110, Stop: 53586, Start Num: 6

Candidate Starts for LaterM_81:

(Start: 6 @53110 has 34 MA's), (8, 53122), (11, 53173), (27, 53353), (29, 53380), (30, 53401), (33, 53431), (37, 53455), (46, 53539),

Gene: LindNT_79 Start: 52889, Stop: 53365, Start Num: 6

Candidate Starts for LindNT_79:

(Start: 6 @52889 has 34 MA's), (11, 52952), (27, 53132), (30, 53180), (37, 53234),

Gene: McMater_82 Start: 53736, Stop: 54047, Start Num: 6

Candidate Starts for McMater_82:

(Start: 6 @53736 has 34 MA's), (9, 53763), (11, 53799), (18, 53910), (22, 53940), (28, 53967), (32, 54027), (34, 54033),

Gene: Megsy_85 Start: 53058, Stop: 53534, Start Num: 6

Candidate Starts for Megsy_85:

(Start: 6 @53058 has 34 MA's), (11, 53121), (12, 53142), (27, 53301), (29, 53328), (30, 53349), (37, 53403), (46, 53487),

Gene: Mynx_82 Start: 53173, Stop: 53649, Start Num: 6

Candidate Starts for Mynx_82:

(Start: 6 @53173 has 34 MA's), (11, 53236), (27, 53416), (29, 53443), (30, 53464), (37, 53518),

Gene: Niklas_83 Start: 53812, Stop: 54087, Start Num: 6

Candidate Starts for Niklas_83:

(Start: 6 @53812 has 34 MA's), (9, 53839), (11, 53875), (14, 53965), (28, 54007), (32, 54067), (34, 54073),

Gene: OkiRoe_75 Start: 51530, Stop: 52093, Start Num: 6

Candidate Starts for OkiRoe_75:

(Start: 6 @51530 has 34 MA's), (10, 51575), (28, 51806), (30, 51836), (31, 51839), (36, 51878), (43, 51938), (44, 51941),

Gene: Peanam_83 Start: 53755, Stop: 54066, Start Num: 6

Candidate Starts for Peanam_83:

(Start: 6 @53755 has 34 MA's), (9, 53782), (11, 53818), (18, 53929), (22, 53959), (28, 53986), (32, 54046), (34, 54052),

Gene: Pisa1_81 Start: 53110, Stop: 53586, Start Num: 6

Candidate Starts for Pisa1_81:

(Start: 6 @53110 has 34 MA's), (8, 53122), (11, 53173), (23, 53329), (27, 53353), (29, 53380), (30, 53401), (37, 53455),

Gene: Pisa4_75 Start: 48479, Stop: 48955, Start Num: 6

Candidate Starts for Pisa4_75:

(Start: 6 @48479 has 34 MA's), (8, 48491), (11, 48542), (23, 48698), (27, 48722), (29, 48749), (30, 48770), (37, 48824),

Gene: Pokerus_81 Start: 52873, Stop: 53349, Start Num: 6

Candidate Starts for Pokerus_81:

(Start: 6 @52873 has 34 MA's), (11, 52936), (21, 53074), (27, 53116), (29, 53143), (30, 53164), (37, 53218),

Gene: QuincyRose_79 Start: 52871, Stop: 53347, Start Num: 6

Candidate Starts for QuincyRose_79:

(Start: 6 @52871 has 34 MA's), (8, 52883), (11, 52934), (27, 53114), (29, 53141), (30, 53162), (33, 53192), (37, 53216),

Gene: Rapunzel97_83 Start: 52845, Stop: 53321, Start Num: 6

Candidate Starts for Rapunzel97_83:

(Start: 6 @52845 has 34 MA's), (11, 52908), (27, 53088), (29, 53115), (30, 53136), (37, 53190),

Gene: Richo_82 Start: 53736, Stop: 54047, Start Num: 6

Candidate Starts for Richo_82:

(Start: 6 @53736 has 34 MA's), (9, 53763), (11, 53799), (18, 53910), (22, 53940), (28, 53967), (32, 54027), (34, 54033),

Gene: Shaobing_82 Start: 53787, Stop: 54134, Start Num: 6

Candidate Starts for Shaobing_82:

(Start: 6 @53787 has 34 MA's), (9, 53814), (11, 53850), (14, 53940), (24, 54018), (28, 54054), (32, 54114), (34, 54120),

Gene: Stinson_82 Start: 53036, Stop: 53512, Start Num: 6

Candidate Starts for Stinson_82:

(Start: 6 @53036 has 34 MA's), (8, 53048), (11, 53099), (21, 53237), (27, 53279), (29, 53306), (30, 53327), (33, 53357), (37, 53381),

Gene: Thyatira_76 Start: 53221, Stop: 53565, Start Num: 6

Candidate Starts for Thyatira_76:

(Start: 6 @53221 has 34 MA's), (10, 53266), (16, 53374), (20, 53404), (27, 53461),

Gene: Validus_86 Start: 54324, Stop: 54686, Start Num: 3

Candidate Starts for Validus_86:

(Start: 3 @54324 has 1 MA's), (Start: 6 @54339 has 34 MA's), (9, 54366), (11, 54402), (14, 54492), (15, 54495), (19, 54528), (24, 54570), (28, 54606), (32, 54666), (34, 54672),

Gene: ViviJ_79 Start: 51225, Stop: 51584, Start Num: 6

Candidate Starts for ViviJ_79:

(Start: 6 @51225 has 34 MA's), (10, 51270), (16, 51393), (17, 51396), (25, 51459), (27, 51480), (31, 51534), (38, 51576),

Gene: Waterfoul_75 Start: 51291, Stop: 51635, Start Num: 6

Candidate Starts for Waterfoul_75:

(Start: 6 @51291 has 34 MA's), (10, 51336), (16, 51444), (20, 51474), (27, 51531),

Gene: YoureAdopted_80 Start: 52656, Stop: 53132, Start Num: 6

Candidate Starts for YoureAdopted_80:

(Start: 6 @52656 has 34 MA's), (11, 52719), (21, 52857), (27, 52899), (29, 52926), (30, 52947), (33, 52977), (37, 53001),

Gene: Yuna_83 Start: 54192, Stop: 54572, Start Num: 2

Candidate Starts for Yuna_83:

(Start: 2 @54192 has 1 MA's), (5, 54234), (7, 54243), (11, 54309),

Gene: Yunkel11_86 Start: 52988, Stop: 53380, Start Num: 6

Candidate Starts for Yunkel11_86:

(Start: 6 @52988 has 34 MA's), (11, 53051), (12, 53072), (26, 53222), (27, 53231), (28, 53249), (31, 53282), (35, 53318), (39, 53336), (40, 53351), (42, 53372),