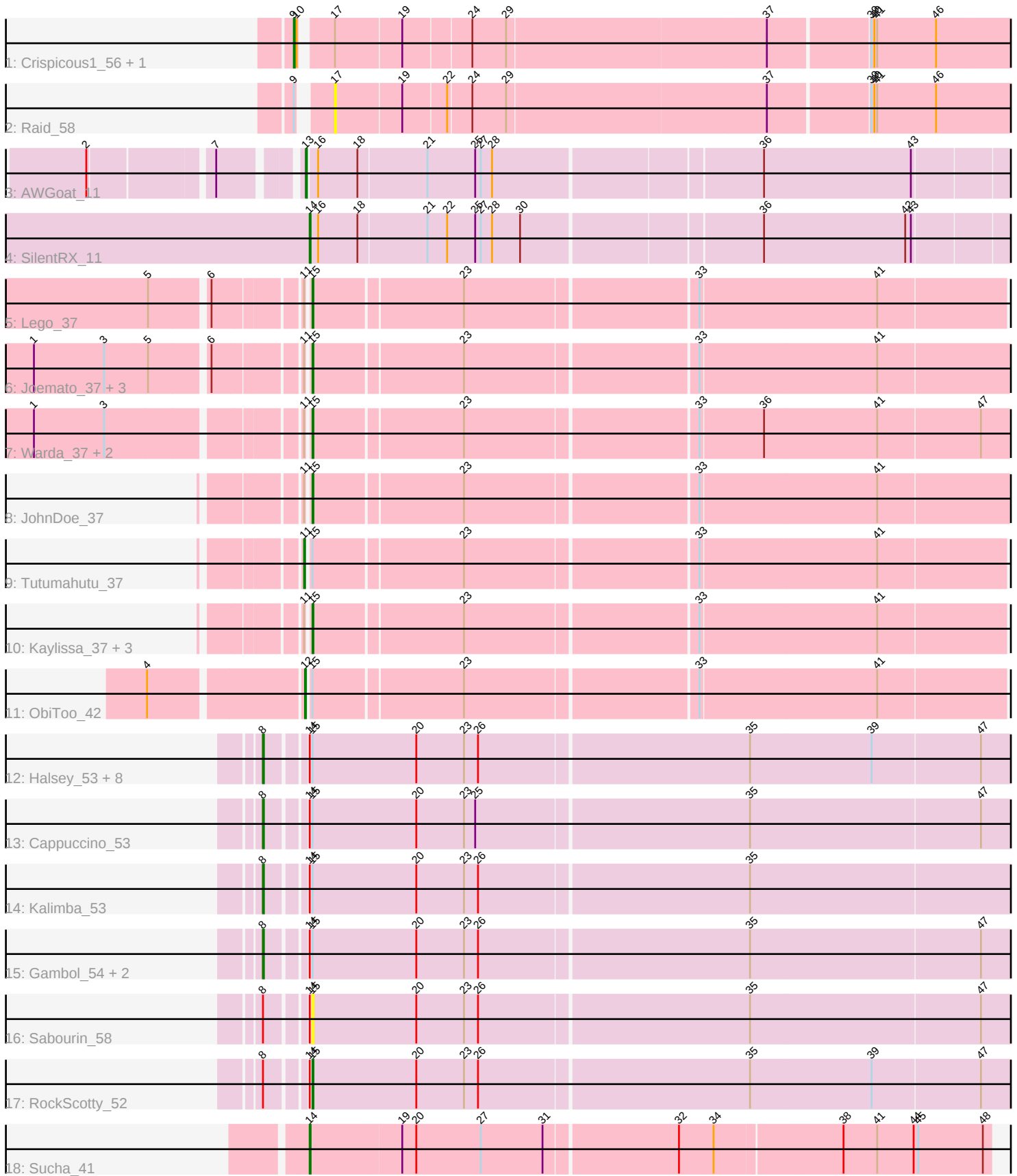


Pham 259216



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 259216 Report

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

Pham number 259216 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Crispicous1_56, CactusRose_57
- Track 2 : Raid_58
- Track 3 : AWGoat_11
- Track 4 : SilentRX_11
- Track 5 : Lego_37
- Track 6 : Joemato_37, Flutur_36, Simpson_39, Cyan_37
- Track 7 : Warda_37, Mudpuppy_35, Tbone_36
- Track 8 : JohnDoe_37
- Track 9 : Tutumahutu_37
- Track 10 : Kaylissa_37, AGrandiflora_37, YesChef_37, Powerpuff_39
- Track 11 : ObiToo_42
- Track 12 : Halsey_53, Giorgio_52, Ashes_53, Beaupre_52, Moss_53, Stuu_53, Mysterium_52, Gumpizza_52, SpecialK_53
- Track 13 : Cappuccino_53
- Track 14 : Kalimba_53
- Track 15 : Gambol_54, Donkey_53, Sooty_53
- Track 16 : Sabourin_58
- Track 17 : RockScotty_52
- Track 18 : Sucha_41

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

The start number called the most often in the published annotations is 8, it was called in 14 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashes_53, Beaupre_52, Cappuccino_53, Donkey_53, Gambol_54, Giorgio_52, Gumpizza_52, Halsey_53, Kalimba_53, Moss_53, Mysterium_52, Sooty_53, SpecialK_53, Stuu_53,

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

- RockScotty_52, Sabourin_58,

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

• AGrandiflora_37, AWGoat_11, CactusRose_57, Crispicous1_56, Cyan_37, Flutur_36, Joemato_37, JohnDoe_37, Kaylissa_37, Lego_37, Mudpuppy_35, ObiToo_42, Powerpuff_39, Raid_58, SilentRX_11, Simpson_39, Sucha_41, Tbone_36, Tutumahutu_37, Warda_37, YesChef_37,

Summary by start number:

Start 8:

- Found in 16 of 37 (43.2%) of genes in pham
- Manual Annotations of this start: 14 of 32
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Ashes_53 (AZ5), Beaupre_52 (AZ5), Cappuccino_53 (AZ5), Donkey_53 (AZ5), Gambol_54 (AZ5), Giorgio_52 (AZ5), Gumpizza_52 (AZ5), Halsey_53 (AZ5), Kalimba_53 (AZ5), Moss_53 (AZ5), Mysteryum_52 (AZ5), Sooty_53 (AZ5), SpecialK_53 (AZ5), Stuu_53 (AZ5),

Start 9:

- Found in 3 of 37 (8.1%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CactusRose_57 (A1), Crispicous1_56 (A1),

Start 11:

- Found in 14 of 37 (37.8%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Tutumahutu_37 (AZ1),

Start 12:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ObiToo_42 (AZ1),

Start 13:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_11 (AP4),

Start 14:

- Found in 18 of 37 (48.6%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 11.1% of time when present
- Phage (with cluster) where this start called: SilentRX_11 (AP4), Sucha_41 (EJ),

Start 15:

- Found in 31 of 37 (83.8%) of genes in pham
- Manual Annotations of this start: 11 of 32
- Called 48.4% of time when present
- Phage (with cluster) where this start called: AGrandiflora_37 (AZ1), Cyan_37 (AZ1), Flutur_36 (AZ), Joemato_37 (AZ1), JohnDoe_37 (AZ1), Kaylissa_37 (AZ1), Lego_37

(AZ1), Mudpuppy_35 (AZ1), Powerpuff_39 (AZ1), RockScotty_52 (AZ5), Sabourin_58 (AZ5), Simpson_39 (AZ1), Tbone_36 (AZ1), Warda_37 (AZ1), YesChef_37 (AZ1),

Start 17:

- Found in 3 of 37 (8.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Raid_58 (A1),

Summary by clusters:

There are 6 clusters represented in this pham: EJ, AP4, A1, AZ1, AZ, AZ5,

Info for manual annotations of cluster A1:

- Start number 9 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster AP4:

- Start number 13 was manually annotated 1 time for cluster AP4.
- Start number 14 was manually annotated 1 time for cluster AP4.

Info for manual annotations of cluster AZ1:

- Start number 11 was manually annotated 1 time for cluster AZ1.
- Start number 12 was manually annotated 1 time for cluster AZ1.
- Start number 15 was manually annotated 10 times for cluster AZ1.

Info for manual annotations of cluster AZ5:

- Start number 8 was manually annotated 14 times for cluster AZ5.
- Start number 15 was manually annotated 1 time for cluster AZ5.

Info for manual annotations of cluster EJ:

- Start number 14 was manually annotated 1 time for cluster EJ.

Gene Information:

Gene: AGrandiflora_37 Start: 25933, Stop: 26643, Start Num: 15

Candidate Starts for AGrandiflora_37:

(Start: 11 @25930 has 1 MA's), (Start: 15 @25933 has 11 MA's), (23, 26086), (33, 26323), (41, 26509),

Gene: AWGoat_11 Start: 4286, Stop: 5023, Start Num: 13

Candidate Starts for AWGoat_11:

(2, 4094), (7, 4214), (Start: 13 @4286 has 1 MA's), (16, 4295), (18, 4337), (21, 4409), (25, 4460), (27, 4466), (28, 4478), (36, 4751), (43, 4907),

Gene: Ashes_53 Start: 35916, Stop: 36692, Start Num: 8

Candidate Starts for Ashes_53:

(Start: 8 @35916 has 14 MA's), (Start: 14 @35952 has 2 MA's), (Start: 15 @35955 has 11 MA's), (20, 36066), (23, 36117), (26, 36132), (35, 36414), (39, 36543), (47, 36657),

Gene: Beaupre_52 Start: 35726, Stop: 36502, Start Num: 8

Candidate Starts for Beaupre_52:

(Start: 8 @35726 has 14 MA's), (Start: 14 @35762 has 2 MA's), (Start: 15 @35765 has 11 MA's), (20, 35876), (23, 35927), (26, 35942), (35, 36224), (39, 36353), (47, 36467),

Gene: CactusRose_57 Start: 40088, Stop: 39360, Start Num: 9

Candidate Starts for CactusRose_57:

(Start: 9 @40088 has 2 MA's), (10, 40085), (17, 40058), (19, 39989), (24, 39920), (29, 39884), (37, 39611), (39, 39509), (40, 39506), (41, 39503), (46, 39440),

Gene: Cappuccino_53 Start: 35772, Stop: 36548, Start Num: 8

Candidate Starts for Cappuccino_53:

(Start: 8 @35772 has 14 MA's), (Start: 14 @35808 has 2 MA's), (Start: 15 @35811 has 11 MA's), (20, 35922), (23, 35973), (25, 35985), (35, 36270), (47, 36513),

Gene: Crispicous1_56 Start: 39141, Stop: 38413, Start Num: 9

Candidate Starts for Crispicous1_56:

(Start: 9 @39141 has 2 MA's), (10, 39138), (17, 39111), (19, 39042), (24, 38973), (29, 38937), (37, 38664), (39, 38562), (40, 38559), (41, 38556), (46, 38493),

Gene: Cyan_37 Start: 25989, Stop: 26702, Start Num: 15

Candidate Starts for Cyan_37:

(1, 25725), (3, 25800), (5, 25845), (6, 25902), (Start: 11 @25986 has 1 MA's), (Start: 15 @25989 has 11 MA's), (23, 26142), (33, 26379), (41, 26565),

Gene: Donkey_53 Start: 35762, Stop: 36538, Start Num: 8

Candidate Starts for Donkey_53:

(Start: 8 @35762 has 14 MA's), (Start: 14 @35798 has 2 MA's), (Start: 15 @35801 has 11 MA's), (20, 35912), (23, 35963), (26, 35978), (35, 36260), (47, 36503),

Gene: Flutur_36 Start: 26247, Stop: 26960, Start Num: 15

Candidate Starts for Flutur_36:

(1, 25983), (3, 26058), (5, 26103), (6, 26160), (Start: 11 @26244 has 1 MA's), (Start: 15 @26247 has 11 MA's), (23, 26400), (33, 26637), (41, 26823),

Gene: Gambol_54 Start: 35781, Stop: 36557, Start Num: 8

Candidate Starts for Gambol_54:

(Start: 8 @35781 has 14 MA's), (Start: 14 @35817 has 2 MA's), (Start: 15 @35820 has 11 MA's), (20, 35931), (23, 35982), (26, 35997), (35, 36279), (47, 36522),

Gene: Giorgio_52 Start: 35709, Stop: 36485, Start Num: 8

Candidate Starts for Giorgio_52:

(Start: 8 @35709 has 14 MA's), (Start: 14 @35745 has 2 MA's), (Start: 15 @35748 has 11 MA's), (20, 35859), (23, 35910), (26, 35925), (35, 36207), (39, 36336), (47, 36450),

Gene: Gumpizza_52 Start: 35665, Stop: 36441, Start Num: 8

Candidate Starts for Gumpizza_52:

(Start: 8 @35665 has 14 MA's), (Start: 14 @35701 has 2 MA's), (Start: 15 @35704 has 11 MA's), (20, 35815), (23, 35866), (26, 35881), (35, 36163), (39, 36292), (47, 36406),

Gene: Halsey_53 Start: 35906, Stop: 36682, Start Num: 8

Candidate Starts for Halsey_53:

(Start: 8 @35906 has 14 MA's), (Start: 14 @35942 has 2 MA's), (Start: 15 @35945 has 11 MA's), (20, 36056), (23, 36107), (26, 36122), (35, 36404), (39, 36533), (47, 36647),

Gene: Joemato_37 Start: 26020, Stop: 26733, Start Num: 15

Candidate Starts for Joemato_37:

(1, 25756), (3, 25831), (5, 25876), (6, 25933), (Start: 11 @26017 has 1 MA's), (Start: 15 @26020 has 11 MA's), (23, 26173), (33, 26410), (41, 26596),

Gene: JohnDoe_37 Start: 26012, Stop: 26725, Start Num: 15

Candidate Starts for JohnDoe_37:

(Start: 11 @26009 has 1 MA's), (Start: 15 @26012 has 11 MA's), (23, 26165), (33, 26402), (41, 26588),

Gene: Kalimba_53 Start: 35759, Stop: 36535, Start Num: 8

Candidate Starts for Kalimba_53:

(Start: 8 @35759 has 14 MA's), (Start: 14 @35795 has 2 MA's), (Start: 15 @35798 has 11 MA's), (20, 35909), (23, 35960), (26, 35975), (35, 36257),

Gene: Kaylissa_37 Start: 25954, Stop: 26664, Start Num: 15

Candidate Starts for Kaylissa_37:

(Start: 11 @25951 has 1 MA's), (Start: 15 @25954 has 11 MA's), (23, 26107), (33, 26344), (41, 26530),

Gene: Lego_37 Start: 25900, Stop: 26610, Start Num: 15

Candidate Starts for Lego_37:

(5, 25759), (6, 25816), (Start: 11 @25897 has 1 MA's), (Start: 15 @25900 has 11 MA's), (23, 26053), (33, 26290), (41, 26476),

Gene: Moss_53 Start: 35847, Stop: 36623, Start Num: 8

Candidate Starts for Moss_53:

(Start: 8 @35847 has 14 MA's), (Start: 14 @35883 has 2 MA's), (Start: 15 @35886 has 11 MA's), (20, 35997), (23, 36048), (26, 36063), (35, 36345), (39, 36474), (47, 36588),

Gene: Mudpuppy_35 Start: 25767, Stop: 26480, Start Num: 15

Candidate Starts for Mudpuppy_35:

(1, 25503), (3, 25578), (Start: 11 @25764 has 1 MA's), (Start: 15 @25767 has 11 MA's), (23, 25920), (33, 26157), (36, 26223), (41, 26343), (47, 26451),

Gene: Mysterium_52 Start: 35694, Stop: 36470, Start Num: 8

Candidate Starts for Mysterium_52:

(Start: 8 @35694 has 14 MA's), (Start: 14 @35730 has 2 MA's), (Start: 15 @35733 has 11 MA's), (20, 35844), (23, 35895), (26, 35910), (35, 36192), (39, 36321), (47, 36435),

Gene: ObiToo_42 Start: 26828, Stop: 27541, Start Num: 12

Candidate Starts for ObiToo_42:

(4, 26675), (Start: 12 @26828 has 1 MA's), (Start: 15 @26831 has 11 MA's), (23, 26984), (33, 27221), (41, 27407),

Gene: Powerpuff_39 Start: 27103, Stop: 27813, Start Num: 15

Candidate Starts for Powerpuff_39:

(Start: 11 @27100 has 1 MA's), (Start: 15 @27103 has 11 MA's), (23, 27256), (33, 27493), (41, 27679),

Gene: Raid_58 Start: 40229, Stop: 39531, Start Num: 17

Candidate Starts for Raid_58:

(Start: 9 @40256 has 2 MA's), (17, 40229), (19, 40160), (22, 40115), (24, 40091), (29, 40055), (37, 39782), (39, 39680), (40, 39677), (41, 39674), (46, 39611),

Gene: RockScotty_52 Start: 35728, Stop: 36465, Start Num: 15

Candidate Starts for RockScotty_52:

(Start: 8 @35689 has 14 MA's), (Start: 14 @35725 has 2 MA's), (Start: 15 @35728 has 11 MA's), (20, 35839), (23, 35890), (26, 35905), (35, 36187), (39, 36316), (47, 36430),

Gene: Sabourin_58 Start: 35799, Stop: 36536, Start Num: 15

Candidate Starts for Sabourin_58:

(Start: 8 @35760 has 14 MA's), (Start: 14 @35796 has 2 MA's), (Start: 15 @35799 has 11 MA's), (20, 35910), (23, 35961), (26, 35976), (35, 36258), (47, 36501),

Gene: SilentRX_11 Start: 3891, Stop: 4628, Start Num: 14

Candidate Starts for SilentRX_11:

(Start: 14 @3891 has 2 MA's), (16, 3900), (18, 3942), (21, 4014), (22, 4035), (25, 4065), (27, 4071), (28, 4083), (30, 4113), (36, 4356), (42, 4506), (43, 4512),

Gene: Simpson_39 Start: 26020, Stop: 26733, Start Num: 15

Candidate Starts for Simpson_39:

(1, 25756), (3, 25831), (5, 25876), (6, 25933), (Start: 11 @26017 has 1 MA's), (Start: 15 @26020 has 11 MA's), (23, 26173), (33, 26410), (41, 26596),

Gene: Sooty_53 Start: 35774, Stop: 36550, Start Num: 8

Candidate Starts for Sooty_53:

(Start: 8 @35774 has 14 MA's), (Start: 14 @35810 has 2 MA's), (Start: 15 @35813 has 11 MA's), (20, 35924), (23, 35975), (26, 35990), (35, 36272), (47, 36515),

Gene: SpecialK_53 Start: 35756, Stop: 36532, Start Num: 8

Candidate Starts for SpecialK_53:

(Start: 8 @35756 has 14 MA's), (Start: 14 @35792 has 2 MA's), (Start: 15 @35795 has 11 MA's), (20, 35906), (23, 35957), (26, 35972), (35, 36254), (39, 36383), (47, 36497),

Gene: Stuu_53 Start: 35871, Stop: 36647, Start Num: 8

Candidate Starts for Stuu_53:

(Start: 8 @35871 has 14 MA's), (Start: 14 @35907 has 2 MA's), (Start: 15 @35910 has 11 MA's), (20, 36021), (23, 36072), (26, 36087), (35, 36369), (39, 36498), (47, 36612),

Gene: Sucha_41 Start: 26232, Stop: 26936, Start Num: 14

Candidate Starts for Sucha_41:

(Start: 14 @26232 has 2 MA's), (19, 26328), (20, 26343), (27, 26412), (31, 26478), (32, 26613), (34, 26649), (38, 26781), (41, 26817), (44, 26856), (45, 26859), (48, 26928),

Gene: Tbone_36 Start: 25815, Stop: 26528, Start Num: 15

Candidate Starts for Tbone_36:

(1, 25551), (3, 25626), (Start: 11 @25812 has 1 MA's), (Start: 15 @25815 has 11 MA's), (23, 25968), (33, 26205), (36, 26271), (41, 26391), (47, 26499),

Gene: Tutumahutu_37 Start: 25982, Stop: 26695, Start Num: 11

Candidate Starts for Tutumahutu_37:

(Start: 11 @25982 has 1 MA's), (Start: 15 @25985 has 11 MA's), (23, 26138), (33, 26375), (41, 26561),

Gene: Warda_37 Start: 25991, Stop: 26704, Start Num: 15

Candidate Starts for Warda_37:

(1, 25727), (3, 25802), (Start: 11 @25988 has 1 MA's), (Start: 15 @25991 has 11 MA's), (23, 26144), (33, 26381), (36, 26447), (41, 26567), (47, 26675),

Gene: YesChef_37 Start: 25962, Stop: 26672, Start Num: 15

Candidate Starts for YesChef_37:

(Start: 11 @25959 has 1 MA's), (Start: 15 @25962 has 11 MA's), (23, 26115), (33, 26352), (41, 26538),