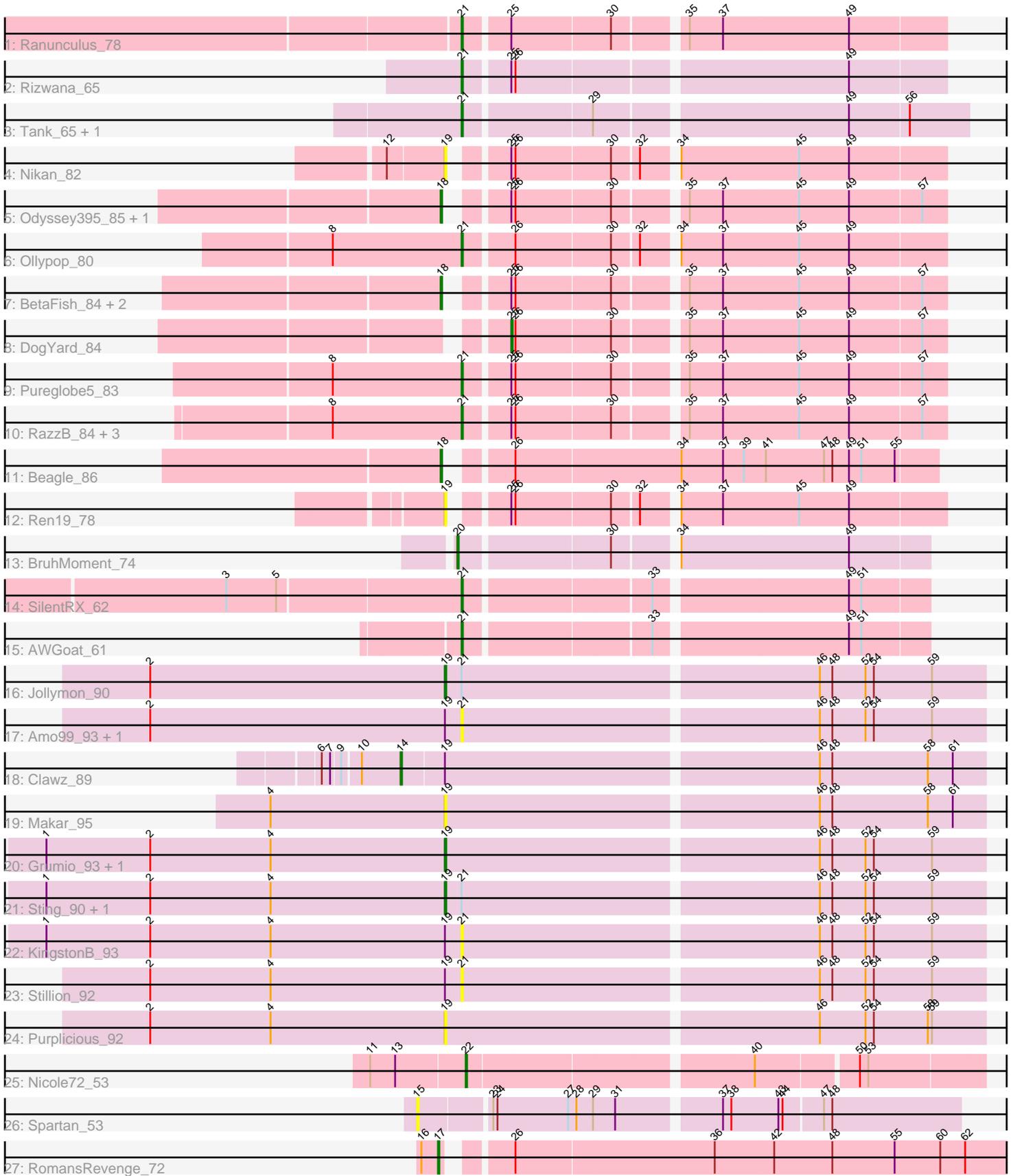


Pham 284001



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 284001 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284001 has 37 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_78
- Track 2 : Rizwana_65
- Track 3 : Tank_65, Wilde_67
- Track 4 : Nikan_82
- Track 5 : Odyssey395_85, PhuzzTulsa_82
- Track 6 : Ollypop_80
- Track 7 : BetaFish_84, Kubulix_84, Pointis_81
- Track 8 : DogYard_84
- Track 9 : Pureglobe5_83
- Track 10 : RazzB_84, Forrestell_84, MellowYellow_85, NyleyClemson_84
- Track 11 : Beagle_86
- Track 12 : Ren19_78
- Track 13 : BruhMoment_74
- Track 14 : SilentRX_62
- Track 15 : AWGoat_61
- Track 16 : Jollymon_90
- Track 17 : Amo99_93, ColdSoup_93
- Track 18 : Clawz_89
- Track 19 : Makar_95
- Track 20 : Grumio_93, Soos_87
- Track 21 : Sting_90, DonTron_91
- Track 22 : KingstonB_93
- Track 23 : Stillion_92
- Track 24 : Purplicious_92
- Track 25 : Nicole72_53
- Track 26 : Spartan_53
- Track 27 : RomansRevenge_72

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

The start number called the most often in the published annotations is 21, it was called in 11 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_61, Amo99_93, ColdSoup_93, Forrestell_84, KingstonB_93, MellowYellow_85, NyleyClemson_84, Ollypop_80, Pureglobe5_83, Ranunculus_78, RazzB_84, Rizwana_65, SilentRX_62, Stillion_92, Tank_65, Wilde_67,

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

- DonTron_91, Jollymon_90, Sting_90,

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

- Beagle_86, BetaFish_84, BruhMoment_74, Clawz_89, DogYard_84, Grumio_93, Kubulix_84, Makar_95, Nicole72_53, Nikan_82, Odyssey395_85, PhuzzTulsa_82, Pointis_81, Purplicious_92, Ren19_78, RomansRevenge_72, Soos_87, Spartan_53,

Summary by start number:

Start 14:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clawz_89 (CP),

Start 15:

- Found in 1 of 37 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartan_53 (ES),

Start 17:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RomansRevenge_72 (FT),

Start 18:

- Found in 6 of 37 (16.2%) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_86 (AP2), BetaFish_84 (AP2), Kubulix_84 (AP2), Odyssey395_85 (AP2), PhuzzTulsa_82 (AP2), Pointis_81 (AP2),

Start 19:

- Found in 14 of 37 (37.8%) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 64.3% of time when present
- Phage (with cluster) where this start called: DonTron_91 (CP), Grumio_93 (CP), Jollymon_90 (CP), Makar_95 (CP), Nikan_82 (AP2), Purplicious_92 (CP), Ren19_78 (AP2), Soos_87 (CP), Sting_90 (CP),

Start 20:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment_74 (AP3),

Start 21:

- Found in 19 of 37 (51.4%) of genes in pham
- Manual Annotations of this start: 11 of 24
- Called 84.2% of time when present
- Phage (with cluster) where this start called: AWGoat_61 (AP4), Amo99_93 (CP), ColdSoup_93 (CP), Forrestell_84 (AP2), KingstonB_93 (CP), MellowYellow_85 (AP2), NyleyClemson_84 (AP2), Ollypop_80 (AP2), Pureglobe5_83 (AP2), Ranunculus_78 (AP), RazzB_84 (AP2), Rizwana_65 (AP1), SilentRX_62 (AP4), Stillion_92 (CP), Tank_65 (AP1), Wilde_67 (AP1),

Start 22:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nicole72_53 (EC),

Start 25:

- Found in 15 of 37 (40.5%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 6.7% of time when present
- Phage (with cluster) where this start called: DogYard_84 (AP2),

Summary by clusters:

There are 9 clusters represented in this pham: FT, AP2, AP3, AP1, EC, AP, AP4, CP, ES,

Info for manual annotations of cluster AP:

- Start number 21 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 21 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 18 was manually annotated 4 times for cluster AP2.
- Start number 21 was manually annotated 5 times for cluster AP2.
- Start number 25 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 20 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 21 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster CP:

- Start number 14 was manually annotated 1 time for cluster CP.
- Start number 19 was manually annotated 4 times for cluster CP.

Info for manual annotations of cluster EC:

- Start number 22 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster FT:

- Start number 17 was manually annotated 1 time for cluster FT.

Gene Information:

Gene: AWGoat_61 Start: 44482, Stop: 44168, Start Num: 21

Candidate Starts for AWGoat_61:

(Start: 21 @44482 has 11 MA's), (33, 44356), (49, 44224), (51, 44215),

Gene: Amo99_93 Start: 57523, Stop: 57891, Start Num: 21

Candidate Starts for Amo99_93:

(2, 57298), (Start: 19 @57511 has 4 MA's), (Start: 21 @57523 has 11 MA's), (46, 57772), (48, 57781), (52, 57805), (54, 57811), (59, 57853),

Gene: Beagle_86 Start: 50592, Stop: 50260, Start Num: 18

Candidate Starts for Beagle_86:

(Start: 18 @50592 has 4 MA's), (26, 50559), (34, 50442), (37, 50412), (39, 50397), (41, 50382), (47, 50340), (48, 50334), (49, 50322), (51, 50313), (55, 50289),

Gene: BetaFish_84 Start: 50810, Stop: 50484, Start Num: 18

Candidate Starts for BetaFish_84:

(Start: 18 @50810 has 4 MA's), (Start: 25 @50780 has 1 MA's), (26, 50777), (30, 50711), (35, 50666), (37, 50642), (45, 50588), (49, 50552), (57, 50501),

Gene: BruhMoment_74 Start: 49610, Stop: 49293, Start Num: 20

Candidate Starts for BruhMoment_74:

(Start: 20 @49610 has 1 MA's), (30, 49508), (34, 49469), (49, 49349),

Gene: Clawz_89 Start: 57153, Stop: 57563, Start Num: 14

Candidate Starts for Clawz_89:

(6, 57102), (7, 57108), (9, 57114), (10, 57126), (Start: 14 @57153 has 1 MA's), (Start: 19 @57183 has 4 MA's), (46, 57444), (48, 57453), (58, 57522), (61, 57540),

Gene: ColdSoup_93 Start: 57604, Stop: 57972, Start Num: 21

Candidate Starts for ColdSoup_93:

(2, 57379), (Start: 19 @57592 has 4 MA's), (Start: 21 @57604 has 11 MA's), (46, 57853), (48, 57862), (52, 57886), (54, 57892), (59, 57934),

Gene: DogYard_84 Start: 50267, Stop: 49971, Start Num: 25

Candidate Starts for DogYard_84:

(Start: 25 @50267 has 1 MA's), (26, 50264), (30, 50198), (35, 50153), (37, 50129), (45, 50075), (49, 50039), (57, 49988),

Gene: DonTron_91 Start: 57708, Stop: 58088, Start Num: 19

Candidate Starts for DonTron_91:

(1, 57420), (2, 57495), (4, 57582), (Start: 19 @57708 has 4 MA's), (Start: 21 @57720 has 11 MA's), (46, 57969), (48, 57978), (52, 58002), (54, 58008), (59, 58050),

Gene: Forrestell_84 Start: 49543, Stop: 49217, Start Num: 21

Candidate Starts for Forrestell_84:

(8, 49636), (Start: 21 @49543 has 11 MA's), (Start: 25 @49513 has 1 MA's), (26, 49510), (30, 49444), (35, 49399), (37, 49375), (45, 49321), (49, 49285), (57, 49234),

Gene: Grumio_93 Start: 57321, Stop: 57701, Start Num: 19

Candidate Starts for Grumio_93:

(1, 57033), (2, 57108), (4, 57195), (Start: 19 @57321 has 4 MA's), (46, 57582), (48, 57591), (52, 57615), (54, 57621), (59, 57663),

Gene: Jollymon_90 Start: 57592, Stop: 57972, Start Num: 19

Candidate Starts for Jollymon_90:

(2, 57379), (Start: 19 @57592 has 4 MA's), (Start: 21 @57604 has 11 MA's), (46, 57853), (48, 57862), (52, 57886), (54, 57892), (59, 57934),

Gene: KingstonB_93 Start: 57137, Stop: 57505, Start Num: 21

Candidate Starts for KingstonB_93:

(1, 56837), (2, 56912), (4, 56999), (Start: 19 @57125 has 4 MA's), (Start: 21 @57137 has 11 MA's), (46, 57386), (48, 57395), (52, 57419), (54, 57425), (59, 57467),

Gene: Kubulix_84 Start: 49967, Stop: 49641, Start Num: 18

Candidate Starts for Kubulix_84:

(Start: 18 @49967 has 4 MA's), (Start: 25 @49937 has 1 MA's), (26, 49934), (30, 49868), (35, 49823), (37, 49799), (45, 49745), (49, 49709), (57, 49658),

Gene: Makar_95 Start: 57425, Stop: 57805, Start Num: 19

Candidate Starts for Makar_95:

(4, 57299), (Start: 19 @57425 has 4 MA's), (46, 57686), (48, 57695), (58, 57764), (61, 57782),

Gene: MellowYellow_85 Start: 50209, Stop: 49883, Start Num: 21

Candidate Starts for MellowYellow_85:

(8, 50302), (Start: 21 @50209 has 11 MA's), (Start: 25 @50179 has 1 MA's), (26, 50176), (30, 50110), (35, 50065), (37, 50041), (45, 49987), (49, 49951), (57, 49900),

Gene: Nicole72_53 Start: 39892, Stop: 40239, Start Num: 22

Candidate Starts for Nicole72_53:

(11, 39826), (13, 39844), (Start: 22 @39892 has 1 MA's), (40, 40084), (50, 40153), (53, 40159),

Gene: Nikan_82 Start: 50187, Stop: 49861, Start Num: 19

Candidate Starts for Nikan_82:

(12, 50226), (Start: 19 @50187 has 4 MA's), (Start: 25 @50157 has 1 MA's), (26, 50154), (30, 50088), (32, 50070), (34, 50049), (45, 49965), (49, 49929),

Gene: NyleyClemson_84 Start: 49827, Stop: 49501, Start Num: 21

Candidate Starts for NyleyClemson_84:

(8, 49920), (Start: 21 @49827 has 11 MA's), (Start: 25 @49797 has 1 MA's), (26, 49794), (30, 49728), (35, 49683), (37, 49659), (45, 49605), (49, 49569), (57, 49518),

Gene: Odyssey395_85 Start: 50318, Stop: 49992, Start Num: 18

Candidate Starts for Odyssey395_85:

(Start: 18 @50318 has 4 MA's), (Start: 25 @50288 has 1 MA's), (26, 50285), (30, 50219), (35, 50174), (37, 50150), (45, 50096), (49, 50060), (57, 50009),

Gene: Ollypop_80 Start: 50972, Stop: 50646, Start Num: 21

Candidate Starts for Ollypop_80:

(8, 51065), (Start: 21 @50972 has 11 MA's), (26, 50939), (30, 50873), (32, 50855), (34, 50834), (37, 50804), (45, 50750), (49, 50714),

Gene: PhuzzTulsa_82 Start: 50446, Stop: 50120, Start Num: 18

Candidate Starts for PhuzzTulsa_82:

(Start: 18 @50446 has 4 MA's), (Start: 25 @50416 has 1 MA's), (26, 50413), (30, 50347), (35, 50302), (37, 50278), (45, 50224), (49, 50188), (57, 50137),

Gene: Pointis_81 Start: 49894, Stop: 49568, Start Num: 18

Candidate Starts for Pointis_81:

(Start: 18 @49894 has 4 MA's), (Start: 25 @49864 has 1 MA's), (26, 49861), (30, 49795), (35, 49750), (37, 49726), (45, 49672), (49, 49636), (57, 49585),

Gene: Pureglobe5_83 Start: 50341, Stop: 50015, Start Num: 21

Candidate Starts for Pureglobe5_83:

(8, 50434), (Start: 21 @50341 has 11 MA's), (Start: 25 @50311 has 1 MA's), (26, 50308), (30, 50242), (35, 50197), (37, 50173), (45, 50119), (49, 50083), (57, 50032),

Gene: Purplicious_92 Start: 57086, Stop: 57466, Start Num: 19

Candidate Starts for Purplicious_92:

(2, 56873), (4, 56960), (Start: 19 @57086 has 4 MA's), (46, 57347), (52, 57380), (54, 57386), (58, 57425), (59, 57428),

Gene: Ranunculus_78 Start: 52647, Stop: 52321, Start Num: 21

Candidate Starts for Ranunculus_78:

(Start: 21 @52647 has 11 MA's), (Start: 25 @52617 has 1 MA's), (30, 52548), (35, 52503), (37, 52479), (49, 52389),

Gene: RazzB_84 Start: 49953, Stop: 49627, Start Num: 21

Candidate Starts for RazzB_84:

(8, 50046), (Start: 21 @49953 has 11 MA's), (Start: 25 @49923 has 1 MA's), (26, 49920), (30, 49854), (35, 49809), (37, 49785), (45, 49731), (49, 49695), (57, 49644),

Gene: Ren19_78 Start: 49730, Stop: 49404, Start Num: 19

Candidate Starts for Ren19_78:

(Start: 19 @49730 has 4 MA's), (Start: 25 @49700 has 1 MA's), (26, 49697), (30, 49631), (32, 49613), (34, 49592), (37, 49562), (45, 49508), (49, 49472),

Gene: Rizwana_65 Start: 46684, Stop: 46358, Start Num: 21

Candidate Starts for Rizwana_65:

(Start: 21 @46684 has 11 MA's), (Start: 25 @46654 has 1 MA's), (26, 46651), (49, 46426),

Gene: RomansRevenge_72 Start: 48362, Stop: 47964, Start Num: 17

Candidate Starts for RomansRevenge_72:

(16, 48374), (Start: 17 @48362 has 1 MA's), (26, 48326), (36, 48185), (42, 48143), (48, 48101), (55, 48056), (60, 48023), (62, 48005),

Gene: SilentRX_62 Start: 45416, Stop: 45102, Start Num: 21

Candidate Starts for SilentRX_62:

(3, 45581), (5, 45545), (Start: 21 @45416 has 11 MA's), (33, 45290), (49, 45158), (51, 45149),

Gene: Soos_87 Start: 57034, Stop: 57414, Start Num: 19

Candidate Starts for Soos_87:

(1, 56746), (2, 56821), (4, 56908), (Start: 19 @57034 has 4 MA's), (46, 57295), (48, 57304), (52, 57328), (54, 57334), (59, 57376),

Gene: Spartan_53 Start: 40162, Stop: 40533, Start Num: 15

Candidate Starts for Spartan_53:

(15, 40162), (23, 40210), (24, 40213), (27, 40264), (28, 40270), (29, 40282), (31, 40297), (37, 40366), (38, 40372), (43, 40405), (44, 40408), (47, 40435), (48, 40441),

Gene: Stillion_92 Start: 57704, Stop: 58072, Start Num: 21

Candidate Starts for Stillion_92:

(2, 57479), (4, 57566), (Start: 19 @57692 has 4 MA's), (Start: 21 @57704 has 11 MA's), (46, 57953), (48, 57962), (52, 57986), (54, 57992), (59, 58034),

Gene: Sting_90 Start: 57473, Stop: 57853, Start Num: 19

Candidate Starts for Sting_90:

(1, 57185), (2, 57260), (4, 57347), (Start: 19 @57473 has 4 MA's), (Start: 21 @57485 has 11 MA's), (46, 57734), (48, 57743), (52, 57767), (54, 57773), (59, 57815),

Gene: Tank_65 Start: 46679, Stop: 46338, Start Num: 21

Candidate Starts for Tank_65:

(Start: 21 @46679 has 11 MA's), (29, 46592), (49, 46421), (56, 46379),

Gene: Wilde_67 Start: 46978, Stop: 46637, Start Num: 21

Candidate Starts for Wilde_67:

(Start: 21 @46978 has 11 MA's), (29, 46891), (49, 46720), (56, 46678),