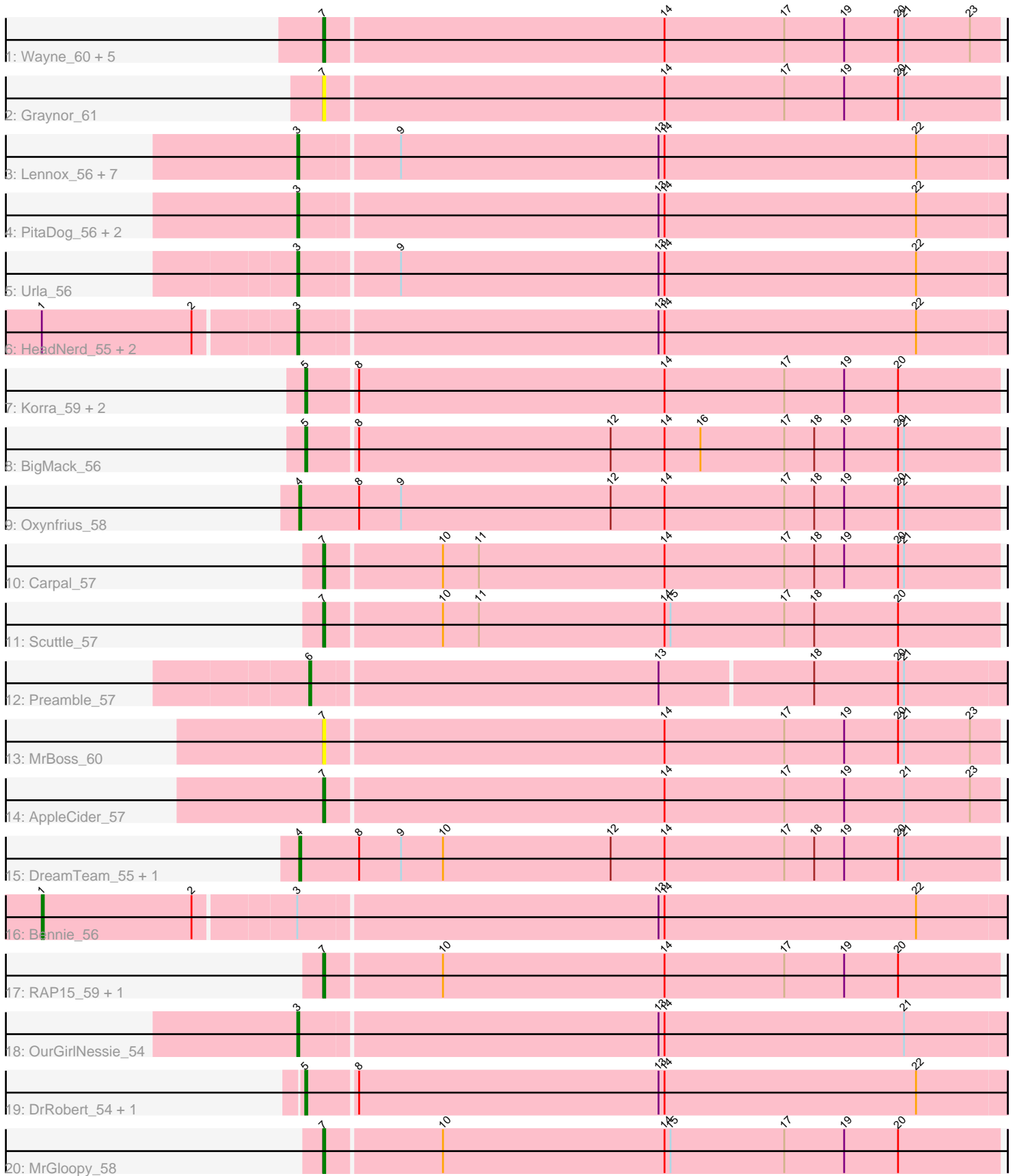


# Pham 294876



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 294876 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294876 has 41 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Wayne\_60, Litotes\_57, CallieOMalley\_58, Suppi\_58, Canowicakte\_58, PartyCup\_59
- Track 2 : Graynor\_61
- Track 3 : Lennox\_56, ChewChew\_56, Lasagna\_54, CristinaYang\_56, Bodacious\_56, LilStuart\_55, Nancia\_56, Lucy\_55
- Track 4 : PitaDog\_56, Pterodactyl\_56, Christian\_56
- Track 5 : Urla\_56
- Track 6 : HeadNerd\_55, Moki\_55, Huckleberry\_55
- Track 7 : Korra\_59, Glenn\_59, Fluke\_58
- Track 8 : BigMack\_56
- Track 9 : Oxyfrius\_58
- Track 10 : Carpal\_57
- Track 11 : Scuttle\_57
- Track 12 : Preamble\_57
- Track 13 : MrBoss\_60
- Track 14 : AppleCider\_57
- Track 15 : DreamTeam\_55, Gisselle\_55
- Track 16 : Bennie\_56
- Track 17 : RAP15\_59, MeganNoll\_58
- Track 18 : OurGirlNessie\_54
- Track 19 : DrRobert\_54, Makoto\_55
- Track 20 : MrGloopy\_58

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

The start number called the most often in the published annotations is 3, it was called in 16 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bodacious\_56, ChewChew\_56, Christian\_56, CristinaYang\_56, HeadNerd\_55, Huckleberry\_55, Lasagna\_54, Lennox\_56, LilStuart\_55, Lucy\_55, Moki\_55, Nancia\_56, OurGirlNessie\_54, PitaDog\_56, Pterodactyl\_56, Urla\_56,

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

- Bennie\_56,

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

- AppleCider\_57, BigMack\_56, CallieOMalley\_58, Canowicakte\_58, Carpal\_57, DrRobert\_54, DreamTeam\_55, Fluke\_58, Gisselle\_55, Glenn\_59, Graynor\_61, Korra\_59, Litotes\_57, Makoto\_55, MeganNoll\_58, MrBoss\_60, MrGloopy\_58, Oxyfnrius\_58, PartyCup\_59, Preamble\_57, RAP15\_59, Scuttle\_57, Suppi\_58, Wayne\_60,

### Summary by start number:

Start 1:

- Found in 4 of 41 ( 9.8% ) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Bennie\_56 (AK),

Start 3:

- Found in 17 of 41 ( 41.5% ) of genes in pham
- Manual Annotations of this start: 16 of 39
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Bodacious\_56 (AK), ChewChew\_56 (AK), Christian\_56 (AK), CristinaYang\_56 (AK), HeadNerd\_55 (AK), Huckleberry\_55 (AK), Lasagna\_54 (AK), Lennox\_56 (AK), LilStuart\_55 (AK), Lucy\_55 (AK), Moki\_55 (AK), Nancia\_56 (AK), OurGirlNessie\_54 (AK), PitaDog\_56 (AK), Pterodactyl\_56 (AK), Urla\_56 (AK),

Start 4:

- Found in 3 of 41 ( 7.3% ) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DreamTeam\_55 (AK), Gisselle\_55 (AK), Oxyfnrius\_58 (AK),

Start 5:

- Found in 6 of 41 ( 14.6% ) of genes in pham
- Manual Annotations of this start: 6 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigMack\_56 (AK), DrRobert\_54 (AK), Fluke\_58 (AK), Glenn\_59 (AK), Korra\_59 (AK), Makoto\_55 (AK),

Start 6:

- Found in 1 of 41 ( 2.4% ) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Preamble\_57 (AK),

Start 7:

- Found in 14 of 41 ( 34.1% ) of genes in pham
- Manual Annotations of this start: 12 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider\_57 (AK), CallieOMalley\_58 (AK), Canowicakte\_58 (AK), Carpal\_57 (AK), Graynor\_61 (AK), Litotes\_57 (AK),

MeganNoll\_58 (AK), MrBoss\_60 (AK), MrGloopy\_58 (AK), PartyCup\_59 (AK), RAP15\_59 (AK), Scuttle\_57 (AK), Suppi\_58 (AK), Wayne\_60 (AK),

### **Summary by clusters:**

There is one cluster represented in this pham: AK

Info for manual annotations of cluster AK:

- Start number 1 was manually annotated 1 time for cluster AK.
- Start number 3 was manually annotated 16 times for cluster AK.
- Start number 4 was manually annotated 3 times for cluster AK.
- Start number 5 was manually annotated 6 times for cluster AK.
- Start number 6 was manually annotated 1 time for cluster AK.
- Start number 7 was manually annotated 12 times for cluster AK.

### **Gene Information:**

Gene: AppleCider\_57 Start: 41677, Stop: 42012, Start Num: 7

Candidate Starts for AppleCider\_57:

(Start: 7 @41677 has 12 MA's), (14, 41845), (17, 41905), (19, 41935), (21, 41965), (23, 41998),

Gene: Bennie\_56 Start: 40399, Stop: 40872, Start Num: 1

Candidate Starts for Bennie\_56:

(Start: 1 @40399 has 1 MA's), (2, 40474), (Start: 3 @40522 has 16 MA's), (13, 40699), (14, 40702), (22, 40828),

Gene: BigMack\_56 Start: 40973, Stop: 41317, Start Num: 5

Candidate Starts for BigMack\_56:

(Start: 5 @40973 has 6 MA's), (8, 40997), (12, 41123), (14, 41150), (16, 41168), (17, 41210), (18, 41225), (19, 41240), (20, 41267), (21, 41270),

Gene: Bodacious\_56 Start: 40944, Stop: 41294, Start Num: 3

Candidate Starts for Bodacious\_56:

(Start: 3 @40944 has 16 MA's), (9, 40992), (13, 41121), (14, 41124), (22, 41250),

Gene: CallieOMalley\_58 Start: 41865, Stop: 42200, Start Num: 7

Candidate Starts for CallieOMalley\_58:

(Start: 7 @41865 has 12 MA's), (14, 42033), (17, 42093), (19, 42123), (20, 42150), (21, 42153), (23, 42186),

Gene: Canowicakte\_58 Start: 41917, Stop: 42252, Start Num: 7

Candidate Starts for Canowicakte\_58:

(Start: 7 @41917 has 12 MA's), (14, 42085), (17, 42145), (19, 42175), (20, 42202), (21, 42205), (23, 42238),

Gene: Carpal\_57 Start: 41744, Stop: 42079, Start Num: 7

Candidate Starts for Carpal\_57:

(Start: 7 @41744 has 12 MA's), (10, 41801), (11, 41819), (14, 41912), (17, 41972), (18, 41987), (19, 42002), (20, 42029), (21, 42032),

Gene: ChewChew\_56 Start: 41074, Stop: 41424, Start Num: 3

Candidate Starts for ChewChew\_56:

(Start: 3 @41074 has 16 MA's), (9, 41122), (13, 41251), (14, 41254), (22, 41380),

Gene: Christian\_56 Start: 40786, Stop: 41136, Start Num: 3

Candidate Starts for Christian\_56:

(Start: 3 @40786 has 16 MA's), (13, 40963), (14, 40966), (22, 41092),

Gene: CristinaYang\_56 Start: 41071, Stop: 41421, Start Num: 3

Candidate Starts for CristinaYang\_56:

(Start: 3 @41071 has 16 MA's), (9, 41119), (13, 41248), (14, 41251), (22, 41377),

Gene: DrRobert\_54 Start: 40308, Stop: 40655, Start Num: 5

Candidate Starts for DrRobert\_54:

(Start: 5 @40308 has 6 MA's), (8, 40332), (13, 40482), (14, 40485), (22, 40611),

Gene: DreamTeam\_55 Start: 40683, Stop: 41033, Start Num: 4

Candidate Starts for DreamTeam\_55:

(Start: 4 @40683 has 3 MA's), (8, 40713), (9, 40734), (10, 40755), (12, 40839), (14, 40866), (17, 40926), (18, 40941), (19, 40956), (20, 40983), (21, 40986),

Gene: Fluke\_58 Start: 42001, Stop: 42345, Start Num: 5

Candidate Starts for Fluke\_58:

(Start: 5 @42001 has 6 MA's), (8, 42025), (14, 42178), (17, 42238), (19, 42268), (20, 42295),

Gene: Gisselle\_55 Start: 40683, Stop: 41033, Start Num: 4

Candidate Starts for Gisselle\_55:

(Start: 4 @40683 has 3 MA's), (8, 40713), (9, 40734), (10, 40755), (12, 40839), (14, 40866), (17, 40926), (18, 40941), (19, 40956), (20, 40983), (21, 40986),

Gene: Glenn\_59 Start: 42462, Stop: 42806, Start Num: 5

Candidate Starts for Glenn\_59:

(Start: 5 @42462 has 6 MA's), (8, 42486), (14, 42639), (17, 42699), (19, 42729), (20, 42756),

Gene: Graynor\_61 Start: 41502, Stop: 41837, Start Num: 7

Candidate Starts for Graynor\_61:

(Start: 7 @41502 has 12 MA's), (14, 41670), (17, 41730), (19, 41760), (20, 41787), (21, 41790),

Gene: HeadNerd\_55 Start: 40416, Stop: 40766, Start Num: 3

Candidate Starts for HeadNerd\_55:

(Start: 1 @40293 has 1 MA's), (2, 40368), (Start: 3 @40416 has 16 MA's), (13, 40593), (14, 40596), (22, 40722),

Gene: Huckleberry\_55 Start: 40420, Stop: 40770, Start Num: 3

Candidate Starts for Huckleberry\_55:

(Start: 1 @40297 has 1 MA's), (2, 40372), (Start: 3 @40420 has 16 MA's), (13, 40597), (14, 40600), (22, 40726),

Gene: Korra\_59 Start: 41736, Stop: 42080, Start Num: 5

Candidate Starts for Korra\_59:

(Start: 5 @41736 has 6 MA's), (8, 41760), (14, 41913), (17, 41973), (19, 42003), (20, 42030),

Gene: Lasagna\_54 Start: 40307, Stop: 40657, Start Num: 3

Candidate Starts for Lasagna\_54:

(Start: 3 @40307 has 16 MA's), (9, 40355), (13, 40484), (14, 40487), (22, 40613),

Gene: Lennox\_56 Start: 40792, Stop: 41142, Start Num: 3

Candidate Starts for Lennox\_56:

(Start: 3 @40792 has 16 MA's), (9, 40840), (13, 40969), (14, 40972), (22, 41098),

Gene: LilStuart\_55 Start: 40655, Stop: 41005, Start Num: 3

Candidate Starts for LilStuart\_55:

(Start: 3 @40655 has 16 MA's), (9, 40703), (13, 40832), (14, 40835), (22, 40961),

Gene: Litotes\_57 Start: 41464, Stop: 41799, Start Num: 7

Candidate Starts for Litotes\_57:

(Start: 7 @41464 has 12 MA's), (14, 41632), (17, 41692), (19, 41722), (20, 41749), (21, 41752), (23, 41785),

Gene: Lucy\_55 Start: 40650, Stop: 41000, Start Num: 3

Candidate Starts for Lucy\_55:

(Start: 3 @40650 has 16 MA's), (9, 40698), (13, 40827), (14, 40830), (22, 40956),

Gene: Makoto\_55 Start: 40551, Stop: 40898, Start Num: 5

Candidate Starts for Makoto\_55:

(Start: 5 @40551 has 6 MA's), (8, 40575), (13, 40725), (14, 40728), (22, 40854),

Gene: MeganNoll\_58 Start: 42247, Stop: 42582, Start Num: 7

Candidate Starts for MeganNoll\_58:

(Start: 7 @42247 has 12 MA's), (10, 42304), (14, 42415), (17, 42475), (19, 42505), (20, 42532),

Gene: Moki\_55 Start: 40609, Stop: 40959, Start Num: 3

Candidate Starts for Moki\_55:

(Start: 1 @40486 has 1 MA's), (2, 40561), (Start: 3 @40609 has 16 MA's), (13, 40786), (14, 40789), (22, 40915),

Gene: MrBoss\_60 Start: 41258, Stop: 41593, Start Num: 7

Candidate Starts for MrBoss\_60:

(Start: 7 @41258 has 12 MA's), (14, 41426), (17, 41486), (19, 41516), (20, 41543), (21, 41546), (23, 41579),

Gene: MrGloopy\_58 Start: 41899, Stop: 42234, Start Num: 7

Candidate Starts for MrGloopy\_58:

(Start: 7 @41899 has 12 MA's), (10, 41956), (14, 42067), (15, 42070), (17, 42127), (19, 42157), (20, 42184),

Gene: Nancia\_56 Start: 40943, Stop: 41293, Start Num: 3

Candidate Starts for Nancia\_56:

(Start: 3 @40943 has 16 MA's), (9, 40991), (13, 41120), (14, 41123), (22, 41249),

Gene: OurGirlNessie\_54 Start: 40272, Stop: 40622, Start Num: 3

Candidate Starts for OurGirlNessie\_54:

(Start: 3 @40272 has 16 MA's), (13, 40449), (14, 40452), (21, 40572),

Gene: Oxyfrius\_58 Start: 42154, Stop: 42504, Start Num: 4

Candidate Starts for Oxyfrius\_58:

(Start: 4 @42154 has 3 MA's), (8, 42184), (9, 42205), (12, 42310), (14, 42337), (17, 42397), (18, 42412), (19, 42427), (20, 42454), (21, 42457),

Gene: PartyCup\_59 Start: 42112, Stop: 42447, Start Num: 7

Candidate Starts for PartyCup\_59:

(Start: 7 @42112 has 12 MA's), (14, 42280), (17, 42340), (19, 42370), (20, 42397), (21, 42400), (23, 42433),

Gene: PitaDog\_56 Start: 40668, Stop: 41018, Start Num: 3

Candidate Starts for PitaDog\_56:

(Start: 3 @40668 has 16 MA's), (13, 40845), (14, 40848), (22, 40974),

Gene: Preamble\_57 Start: 40868, Stop: 41209, Start Num: 6

Candidate Starts for Preamble\_57:

(Start: 6 @40868 has 1 MA's), (13, 41039), (18, 41114), (20, 41156), (21, 41159),

Gene: Pterodactyl\_56 Start: 40909, Stop: 41259, Start Num: 3

Candidate Starts for Pterodactyl\_56:

(Start: 3 @40909 has 16 MA's), (13, 41086), (14, 41089), (22, 41215),

Gene: RAP15\_59 Start: 42248, Stop: 42583, Start Num: 7

Candidate Starts for RAP15\_59:

(Start: 7 @42248 has 12 MA's), (10, 42305), (14, 42416), (17, 42476), (19, 42506), (20, 42533),

Gene: Scuttle\_57 Start: 41927, Stop: 42262, Start Num: 7

Candidate Starts for Scuttle\_57:

(Start: 7 @41927 has 12 MA's), (10, 41984), (11, 42002), (14, 42095), (15, 42098), (17, 42155), (18, 42170), (20, 42212),

Gene: Suppi\_58 Start: 41917, Stop: 42252, Start Num: 7

Candidate Starts for Suppi\_58:

(Start: 7 @41917 has 12 MA's), (14, 42085), (17, 42145), (19, 42175), (20, 42202), (21, 42205), (23, 42238),

Gene: Urla\_56 Start: 41609, Stop: 41959, Start Num: 3

Candidate Starts for Urla\_56:

(Start: 3 @41609 has 16 MA's), (9, 41657), (13, 41786), (14, 41789), (22, 41915),

Gene: Wayne\_60 Start: 42374, Stop: 42709, Start Num: 7

Candidate Starts for Wayne\_60:

(Start: 7 @42374 has 12 MA's), (14, 42542), (17, 42602), (19, 42632), (20, 42659), (21, 42662), (23, 42695),