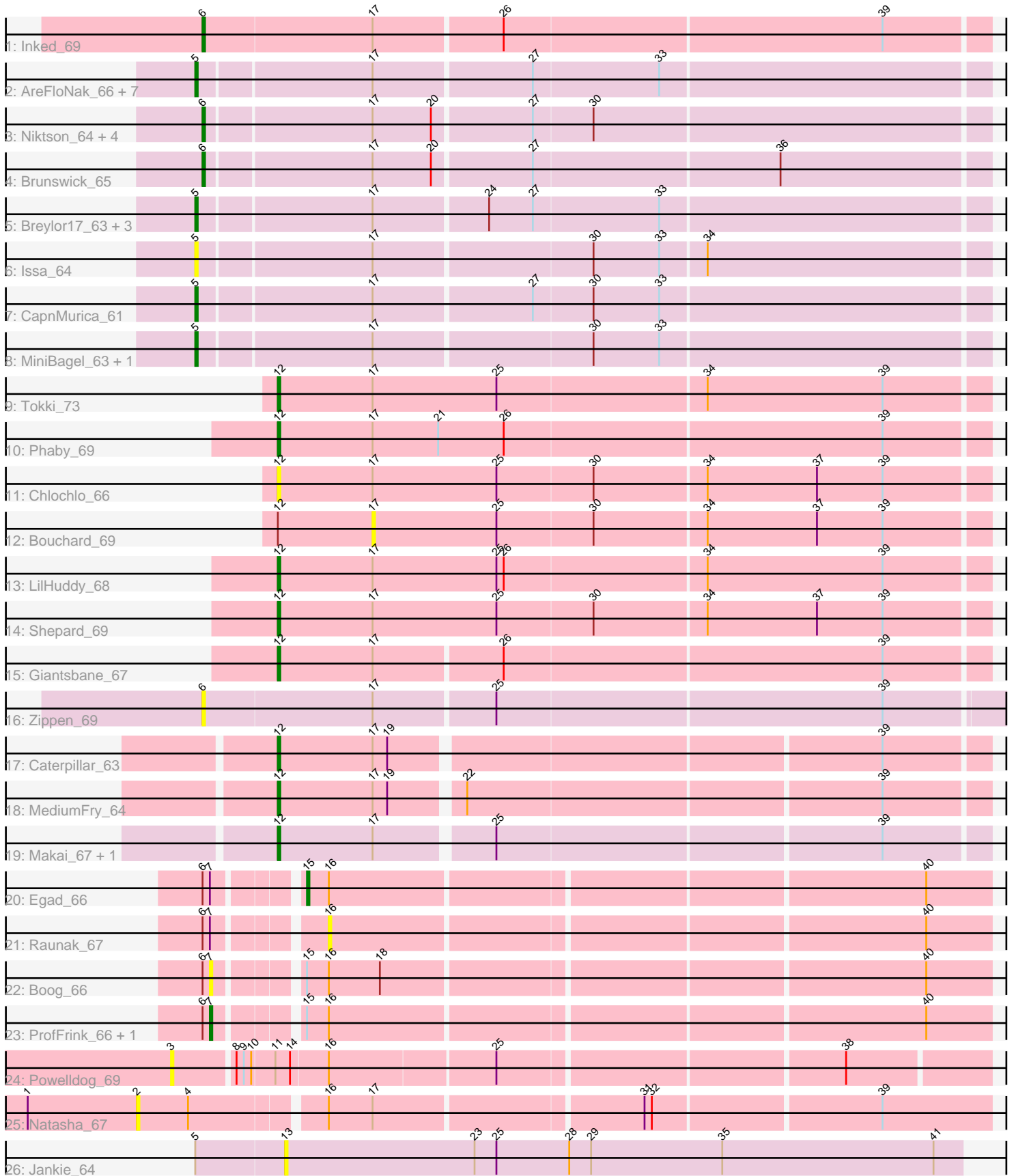


Pham 224694



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 224694 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224694 has 43 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Inked_69
- Track 2 : AreFloNak_66, Gordon_61, DevitoJr_63, Darby_62, Nivinsha_66, Tatanka_59, Synopsis_62, ScienceWizSam_64
- Track 3 : Niktson_64, ElephantMan_64, Teacup_65, Acai_64, LucySwiss_65
- Track 4 : Brunswick_65
- Track 5 : Breylor17_63, CastorTray_67, Trustiboi_63, Nightmare_65
- Track 6 : Issa_64
- Track 7 : CapnMurica_61
- Track 8 : MiniBagel_63, Tenno_64
- Track 9 : Tokki_73
- Track 10 : Phaby_69
- Track 11 : Chlochlo_66
- Track 12 : Bouchard_69
- Track 13 : LilHuddy_68
- Track 14 : Shepard_69
- Track 15 : Giantsbane_67
- Track 16 : Zippen_69
- Track 17 : Caterpillar_63
- Track 18 : MediumFry_64
- Track 19 : Makai_67, Truckee_65
- Track 20 : Egad_66
- Track 21 : Raunak_67
- Track 22 : Boog_66
- Track 23 : ProfFrink_66, HerbBucket_64
- Track 24 : PowellDog_69
- Track 25 : Natasha_67
- Track 26 : Jankie_64

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak_66, Breylor17_63, CapnMurica_61, CastorTray_67, Darby_62, DevitoJr_63, Gordon_61, Issa_64, MiniBagel_63, Nightmare_65, Nivinsha_66, ScienceWizSam_64, Synepsis_62, Tatanka_59, Tenno_64, Trustiboi_63,

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

- Jankie_64,

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

- Acai_64, Boog_66, Bouchard_69, Brunswick_65, Caterpillar_63, Chlochlo_66, Egad_66, ElephantMan_64, Giantsbane_67, HerbBucket_64, Inked_69, LilHuddy_68, LucySwiss_65, Makai_67, MediumFry_64, Natasha_67, Niktson_64, Phaby_69, Powellldog_69, ProfFrink_66, Raunak_67, Shepard_69, Teacup_65, Tokki_73, Truckee_65, Zippen_69,

Summary by start number:

Start 2:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha_67 (AW),

Start 3:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Powellldog_69 (AW),

Start 5:

- Found in 17 of 43 (39.5%) of genes in pham
- Manual Annotations of this start: 13 of 29
- Called 94.1% of time when present
- Phage (with cluster) where this start called: AreFloNak_66 (AU1), Breylor17_63 (AU1), CapnMurica_61 (AU1), CastorTray_67 (AU1), Darby_62 (AU1), DevitoJr_63 (AU1), Gordon_61 (AU1), Issa_64 (AU1), MiniBagel_63 (AU1), Nightmare_65 (AU1), Nivinsha_66 (AU1), ScienceWizSam_64 (AU1), Synepsis_62 (AU1), Tatanka_59 (AU1), Tenno_64 (AU1), Trustiboi_63 (AU1),

Start 6:

- Found in 13 of 43 (30.2%) of genes in pham
- Manual Annotations of this start: 5 of 29
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Acai_64 (AU1), Brunswick_65 (AU1), ElephantMan_64 (AU1), Inked_69 (AU), LucySwiss_65 (AU1), Niktson_64 (AU1), Teacup_65 (AU1), Zippen_69 (AU3),

Start 7:

- Found in 5 of 43 (11.6%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Boog_66 (AW), HerbBucket_64 (AW), ProfFrink_66 (AW),

Start 12:

- Found in 11 of 43 (25.6%) of genes in pham
- Manual Annotations of this start: 9 of 29
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Caterpillar_63 (AU4), Chlochlo_66 (AU2), Giantsbane_67 (AU2), LilHuddy_68 (AU2), Makai_67 (AU5), MediumFry_64 (AU4), Phaby_69 (AU2), Shepard_69 (AU2), Tokki_73 (AU2), Truckee_65 (AU5),

Start 13:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jankie_64 (FP),

Start 15:

- Found in 4 of 43 (9.3%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Egad_66 (AW),

Start 16:

- Found in 7 of 43 (16.3%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Raunak_67 (AW),

Start 17:

- Found in 36 of 43 (83.7%) of genes in pham
- No Manual Annotations of this start.
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Bouchard_69 (AU2),

Summary by clusters:

There are 8 clusters represented in this pham: FP, AU1, AU3, AU2, AU5, AU4, AW, AU,

Info for manual annotations of cluster AU:

- Start number 6 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 5 was manually annotated 13 times for cluster AU1.
- Start number 6 was manually annotated 4 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 12 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 12 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 12 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AW:

- Start number 7 was manually annotated 1 time for cluster AW.
- Start number 15 was manually annotated 1 time for cluster AW.

Gene Information:

Gene: Acai_64 Start: 44756, Stop: 45067, Start Num: 6

Candidate Starts for Acai_64:

(Start: 6 @44756 has 5 MA's), (17, 44822), (20, 44846), (27, 44885), (30, 44909),

Gene: AreFloNak_66 Start: 44576, Stop: 44890, Start Num: 5

Candidate Starts for AreFloNak_66:

(Start: 5 @44576 has 13 MA's), (17, 44645), (27, 44708), (33, 44759),

Gene: Boog_66 Start: 42487, Stop: 42786, Start Num: 7

Candidate Starts for Boog_66:

(Start: 6 @42484 has 5 MA's), (Start: 7 @42487 has 1 MA's), (Start: 15 @42517 has 1 MA's), (16, 42526), (18, 42547), (40, 42760),

Gene: Bouchard_69 Start: 45490, Stop: 45738, Start Num: 17

Candidate Starts for Bouchard_69:

(Start: 12 @45451 has 9 MA's), (17, 45490), (25, 45541), (30, 45580), (34, 45625), (37, 45670), (39, 45697),

Gene: Breylor17_63 Start: 45151, Stop: 45465, Start Num: 5

Candidate Starts for Breylor17_63:

(Start: 5 @45151 has 13 MA's), (17, 45220), (24, 45265), (27, 45283), (33, 45334),

Gene: Brunswick_65 Start: 44599, Stop: 44910, Start Num: 6

Candidate Starts for Brunswick_65:

(Start: 6 @44599 has 5 MA's), (17, 44665), (20, 44689), (27, 44728), (36, 44827),

Gene: CapnMurica_61 Start: 45337, Stop: 45651, Start Num: 5

Candidate Starts for CapnMurica_61:

(Start: 5 @45337 has 13 MA's), (17, 45406), (27, 45469), (30, 45493), (33, 45520),

Gene: CastorTray_67 Start: 45340, Stop: 45654, Start Num: 5

Candidate Starts for CastorTray_67:

(Start: 5 @45340 has 13 MA's), (17, 45409), (24, 45454), (27, 45472), (33, 45523),

Gene: Caterpillar_63 Start: 44268, Stop: 44546, Start Num: 12

Candidate Starts for Caterpillar_63:

(Start: 12 @44268 has 9 MA's), (17, 44307), (19, 44313), (39, 44505),

Gene: Chlochlo_66 Start: 44978, Stop: 45265, Start Num: 12

Candidate Starts for Chlochlo_66:

(Start: 12 @44978 has 9 MA's), (17, 45017), (25, 45068), (30, 45107), (34, 45152), (37, 45197), (39, 45224),

Gene: Darby_62 Start: 44386, Stop: 44700, Start Num: 5
Candidate Starts for Darby_62:
(Start: 5 @44386 has 13 MA's), (17, 44455), (27, 44518), (33, 44569),

Gene: DevitoJr_63 Start: 44772, Stop: 45086, Start Num: 5
Candidate Starts for DevitoJr_63:
(Start: 5 @44772 has 13 MA's), (17, 44841), (27, 44904), (33, 44955),

Gene: Egad_66 Start: 42768, Stop: 43037, Start Num: 15
Candidate Starts for Egad_66:
(Start: 6 @42735 has 5 MA's), (Start: 7 @42738 has 1 MA's), (Start: 15 @42768 has 1 MA's), (16, 42777), (40, 43011),

Gene: ElephantMan_64 Start: 45229, Stop: 45540, Start Num: 6
Candidate Starts for ElephantMan_64:
(Start: 6 @45229 has 5 MA's), (17, 45295), (20, 45319), (27, 45358), (30, 45382),

Gene: Giantsbane_67 Start: 43961, Stop: 44245, Start Num: 12
Candidate Starts for Giantsbane_67:
(Start: 12 @43961 has 9 MA's), (17, 44000), (26, 44051), (39, 44204),

Gene: Gordon_61 Start: 45264, Stop: 45578, Start Num: 5
Candidate Starts for Gordon_61:
(Start: 5 @45264 has 13 MA's), (17, 45333), (27, 45396), (33, 45447),

Gene: HerbBucket_64 Start: 42469, Stop: 42768, Start Num: 7
Candidate Starts for HerbBucket_64:
(Start: 6 @42466 has 5 MA's), (Start: 7 @42469 has 1 MA's), (Start: 15 @42499 has 1 MA's), (16, 42508), (40, 42742),

Gene: Inked_69 Start: 45815, Stop: 46129, Start Num: 6
Candidate Starts for Inked_69:
(Start: 6 @45815 has 5 MA's), (17, 45884), (26, 45935), (39, 46088),

Gene: Issa_64 Start: 44432, Stop: 44746, Start Num: 5
Candidate Starts for Issa_64:
(Start: 5 @44432 has 13 MA's), (17, 44501), (30, 44588), (33, 44615), (34, 44633),

Gene: Jankie_64 Start: 40246, Stop: 40524, Start Num: 13
Candidate Starts for Jankie_64:
(Start: 5 @40210 has 13 MA's), (13, 40246), (23, 40324), (25, 40333), (28, 40363), (29, 40372), (35, 40426), (41, 40513),

Gene: LilHuddy_68 Start: 45074, Stop: 45361, Start Num: 12
Candidate Starts for LilHuddy_68:
(Start: 12 @45074 has 9 MA's), (17, 45113), (25, 45164), (26, 45167), (34, 45248), (39, 45320),

Gene: LucySwiss_65 Start: 44380, Stop: 44691, Start Num: 6
Candidate Starts for LucySwiss_65:
(Start: 6 @44380 has 5 MA's), (17, 44446), (20, 44470), (27, 44509), (30, 44533),

Gene: Makai_67 Start: 45228, Stop: 45506, Start Num: 12
Candidate Starts for Makai_67:

(Start: 12 @45228 has 9 MA's), (17, 45267), (25, 45312), (39, 45465),

Gene: MediumFry_64 Start: 44564, Stop: 44842, Start Num: 12

Candidate Starts for MediumFry_64:

(Start: 12 @44564 has 9 MA's), (17, 44603), (19, 44609), (22, 44636), (39, 44801),

Gene: MiniBagel_63 Start: 45328, Stop: 45642, Start Num: 5

Candidate Starts for MiniBagel_63:

(Start: 5 @45328 has 13 MA's), (17, 45397), (30, 45484), (33, 45511),

Gene: Natasha_67 Start: 42650, Stop: 42982, Start Num: 2

Candidate Starts for Natasha_67:

(1, 42605), (2, 42650), (4, 42671), (16, 42722), (17, 42740), (31, 42845), (32, 42848), (39, 42938),

Gene: Nightmare_65 Start: 45626, Stop: 45940, Start Num: 5

Candidate Starts for Nightmare_65:

(Start: 5 @45626 has 13 MA's), (17, 45695), (24, 45740), (27, 45758), (33, 45809),

Gene: Niktson_64 Start: 45229, Stop: 45540, Start Num: 6

Candidate Starts for Niktson_64:

(Start: 6 @45229 has 5 MA's), (17, 45295), (20, 45319), (27, 45358), (30, 45382),

Gene: Nivinsha_66 Start: 44576, Stop: 44890, Start Num: 5

Candidate Starts for Nivinsha_66:

(Start: 5 @44576 has 13 MA's), (17, 44645), (27, 44708), (33, 44759),

Gene: Phaby_69 Start: 45635, Stop: 45922, Start Num: 12

Candidate Starts for Phaby_69:

(Start: 12 @45635 has 9 MA's), (17, 45674), (21, 45701), (26, 45728), (39, 45881),

Gene: Powelldog_69 Start: 43177, Stop: 43494, Start Num: 3

Candidate Starts for Powelldog_69:

(3, 43177), (8, 43201), (9, 43204), (10, 43207), (11, 43216), (14, 43222), (16, 43237), (25, 43303), (38, 43438),

Gene: ProfFrink_66 Start: 42737, Stop: 43036, Start Num: 7

Candidate Starts for ProfFrink_66:

(Start: 6 @42734 has 5 MA's), (Start: 7 @42737 has 1 MA's), (Start: 15 @42767 has 1 MA's), (16, 42776), (40, 43010),

Gene: Raunak_67 Start: 42437, Stop: 42697, Start Num: 16

Candidate Starts for Raunak_67:

(Start: 6 @42395 has 5 MA's), (Start: 7 @42398 has 1 MA's), (16, 42437), (40, 42671),

Gene: ScienceWizSam_64 Start: 44738, Stop: 45052, Start Num: 5

Candidate Starts for ScienceWizSam_64:

(Start: 5 @44738 has 13 MA's), (17, 44807), (27, 44870), (33, 44921),

Gene: Shepard_69 Start: 44933, Stop: 45220, Start Num: 12

Candidate Starts for Shepard_69:

(Start: 12 @44933 has 9 MA's), (17, 44972), (25, 45023), (30, 45062), (34, 45107), (37, 45152), (39, 45179),

Gene: Synepsis_62 Start: 44739, Stop: 45053, Start Num: 5
Candidate Starts for Synepsis_62:
(Start: 5 @44739 has 13 MA's), (17, 44808), (27, 44871), (33, 44922),

Gene: Tatanka_59 Start: 44875, Stop: 45189, Start Num: 5
Candidate Starts for Tatanka_59:
(Start: 5 @44875 has 13 MA's), (17, 44944), (27, 45007), (33, 45058),

Gene: Teacup_65 Start: 45308, Stop: 45619, Start Num: 6
Candidate Starts for Teacup_65:
(Start: 6 @45308 has 5 MA's), (17, 45374), (20, 45398), (27, 45437), (30, 45461),

Gene: Tenno_64 Start: 45392, Stop: 45706, Start Num: 5
Candidate Starts for Tenno_64:
(Start: 5 @45392 has 13 MA's), (17, 45461), (30, 45548), (33, 45575),

Gene: Tokki_73 Start: 45503, Stop: 45790, Start Num: 12
Candidate Starts for Tokki_73:
(Start: 12 @45503 has 9 MA's), (17, 45542), (25, 45593), (34, 45677), (39, 45749),

Gene: Truckee_65 Start: 45012, Stop: 45290, Start Num: 12
Candidate Starts for Truckee_65:
(Start: 12 @45012 has 9 MA's), (17, 45051), (25, 45096), (39, 45249),

Gene: Trustiboi_63 Start: 44994, Stop: 45308, Start Num: 5
Candidate Starts for Trustiboi_63:
(Start: 5 @44994 has 13 MA's), (17, 45063), (24, 45108), (27, 45126), (33, 45177),

Gene: Zippen_69 Start: 45683, Stop: 46003, Start Num: 6
Candidate Starts for Zippen_69:
(Start: 6 @45683 has 5 MA's), (17, 45752), (25, 45800), (39, 45956),