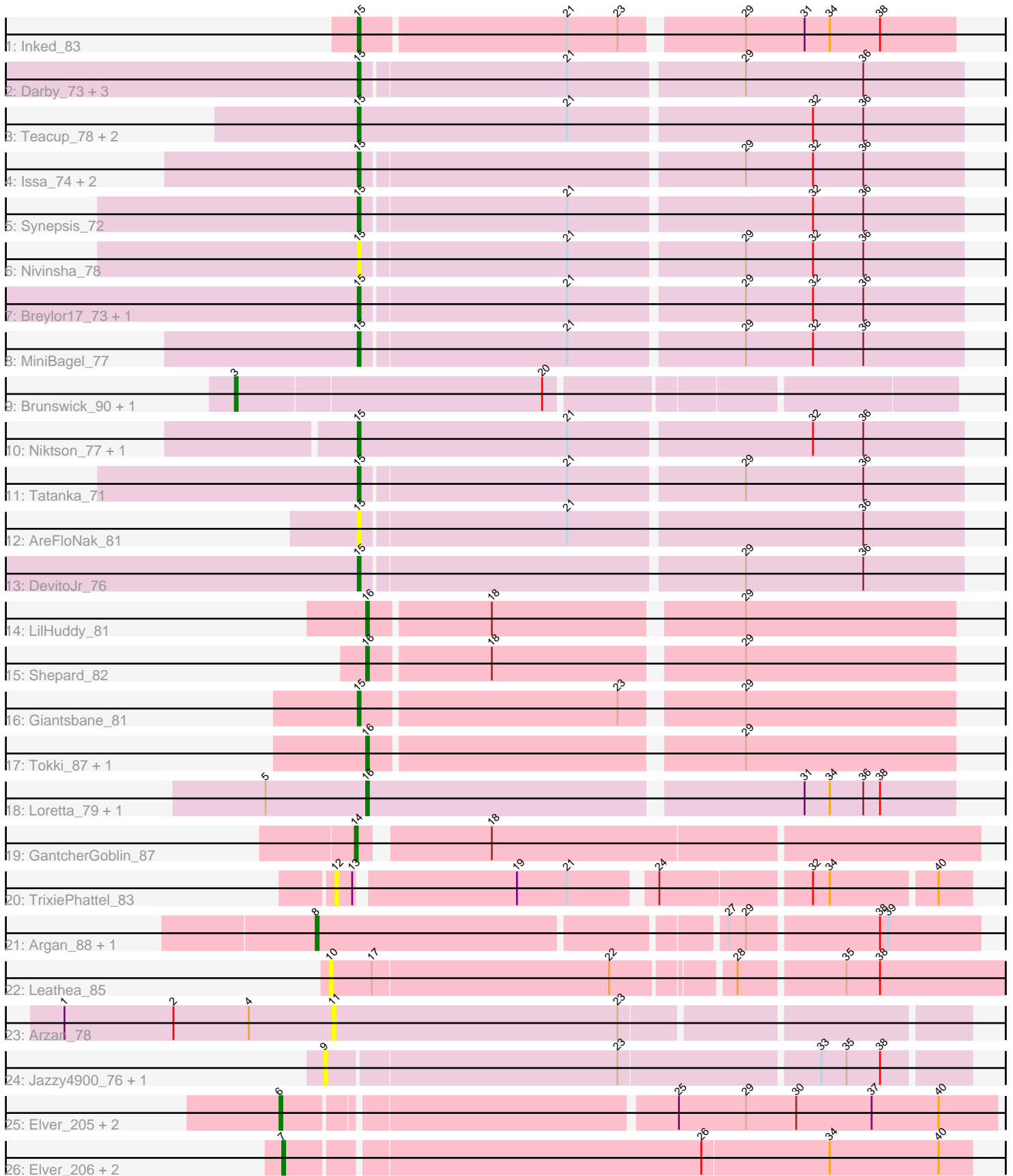


# Pham 194131



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 194131 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194131 has 44 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Inked\_83
- Track 2 : Darby\_73, ScienceWizSam\_78, Gordon\_73, CastorTray\_79
- Track 3 : Teacup\_78, Brunswick\_78, Nightmare\_78
- Track 4 : Issa\_74, CapnMurica\_73, Tenno\_76
- Track 5 : Synopsis\_72
- Track 6 : Nivinsha\_78
- Track 7 : Breylor17\_73, Trustiboi\_75
- Track 8 : MiniBagel\_77
- Track 9 : Brunswick\_90, Issa\_84
- Track 10 : Niktson\_77, ElephantMan\_77
- Track 11 : Tatanka\_71
- Track 12 : AreFloNak\_81
- Track 13 : DevitoJr\_76
- Track 14 : LilHuddy\_81
- Track 15 : Shepard\_82
- Track 16 : Giantsbane\_81
- Track 17 : Tokki\_87, Phaby\_83
- Track 18 : Loretta\_79, Ingrid\_83
- Track 19 : GantcherGoblin\_87
- Track 20 : TrixiePhattel\_83
- Track 21 : Argan\_88, Uzumaki\_88
- Track 22 : Leathea\_85
- Track 23 : Arzan\_78
- Track 24 : Jazzy4900\_76, Sunny4976\_75
- Track 25 : Elver\_205, Qui\_209, Paella\_209
- Track 26 : Elver\_206, Qui\_210, Paella\_210

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

The start number called the most often in the published annotations is 15, it was called in 19 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_81, Breylor17\_73, Brunswick\_78, CapnMurica\_73, CastorTray\_79, Darby\_73, DevitoJr\_76, ElephantMan\_77, Giantsbane\_81, Gordon\_73, Inked\_83, Issa\_74, MiniBagel\_77, Nightmare\_78, Niktson\_77, Nivinsha\_78, ScienceWizSam\_78, Synepsis\_72, Tatanka\_71, Teacup\_78, Tenno\_76, Trustiboi\_75,

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

- 

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

- Argan\_88, Arzan\_78, Brunswick\_90, Elver\_205, Elver\_206, GantcherGoblin\_87, Ingrid\_83, Issa\_84, Jazzy4900\_76, Leatheia\_85, LilHuddy\_81, Loretta\_79, Paella\_209, Paella\_210, Phaby\_83, Qui\_209, Qui\_210, Shepard\_82, Sunny4976\_75, Tokki\_87, TrixiePhattel\_83, Uzumaki\_88,

### Summary by start number:

Start 3:

- Found in 2 of 44 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brunswick\_90 (AU1), Issa\_84 (AU1),

Start 6:

- Found in 3 of 44 ( 6.8% ) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_205 (FK), Paella\_209 (FK), Qui\_209 (FK),

Start 7:

- Found in 3 of 44 ( 6.8% ) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_206 (FK), Paella\_210 (FK), Qui\_210 (FK),

Start 8:

- Found in 2 of 44 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argan\_88 (AU6), Uzumaki\_88 (AU6),

Start 9:

- Found in 2 of 44 ( 4.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jazzy4900\_76 (FI), Sunny4976\_75 (FI),

Start 10:

- Found in 1 of 44 ( 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: Leathea\_85 (AU6),

Start 11:

- Found in 1 of 44 ( 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: Arzan\_78 (FI),

Start 12:

- Found in 1 of 44 ( 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: TrixiePhattel\_83 (AU6),

Start 14:

- Found in 1 of 44 ( 2.3% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GantcherGoblin\_87 (AU6),

Start 15:

- Found in 22 of 44 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 19 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_81 (AU1), Breylor17\_73 (AU1), Brunswick\_78 (AU1), CapnMurica\_73 (AU1), CastorTray\_79 (AU1), Darby\_73 (AU1), DevitoJr\_76 (AU1), ElephantMan\_77 (AU1), Giantsbane\_81 (AU2), Gordon\_73 (AU1), Inked\_83 (AU), Issa\_74 (AU1), MiniBagel\_77 (AU1), Nightmare\_78 (AU1), Niktson\_77 (AU1), Nivinsha\_78 (AU1), ScienceWizSam\_78 (AU1), Synopsis\_72 (AU1), Tatanka\_71 (AU1), Teacup\_78 (AU1), Tenno\_76 (AU1), Trustiboi\_75 (AU1),

Start 16:

- Found in 6 of 44 ( 13.6% ) of genes in pham
- Manual Annotations of this start: 6 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ingrid\_83 (AU3), LilHuddy\_81 (AU2), Loretta\_79 (AU3), Phaby\_83 (AU2), Shepard\_82 (AU2), Tokki\_87 (AU2),

### Summary by clusters:

There are 7 clusters represented in this pham: AU1, AU3, AU2, AU, AU6, FI, FK,

Info for manual annotations of cluster AU:

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

Info for manual annotations of cluster AU1:

- Start number 3 was manually annotated 1 time for cluster AU1.
- Start number 15 was manually annotated 17 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 15 was manually annotated 1 time for cluster AU2.
- Start number 16 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 16 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU6:

- Start number 8 was manually annotated 2 times for cluster AU6.
- Start number 14 was manually annotated 1 time for cluster AU6.

Info for manual annotations of cluster FK:

- Start number 6 was manually annotated 2 times for cluster FK.
- Start number 7 was manually annotated 2 times for cluster FK.

### ***Gene Information:***

Gene: AreFloNak\_81 Start: 50522, Stop: 50731, Start Num: 15

Candidate Starts for AreFloNak\_81:

(Start: 15 @50522 has 19 MA's), (21, 50594), (36, 50696),

Gene: Argan\_88 Start: 50665, Stop: 50889, Start Num: 8

Candidate Starts for Argan\_88:

(Start: 8 @50665 has 2 MA's), (27, 50803), (29, 50809), (38, 50854), (39, 50857),

Gene: Arzan\_78 Start: 49144, Stop: 49362, Start Num: 11

Candidate Starts for Arzan\_78:

(1, 49048), (2, 49087), (4, 49114), (11, 49144), (23, 49246),

Gene: Breylor17\_73 Start: 50912, Stop: 51121, Start Num: 15

Candidate Starts for Breylor17\_73:

(Start: 15 @50912 has 19 MA's), (21, 50984), (29, 51044), (32, 51068), (36, 51086),

Gene: Brunswick\_78 Start: 50656, Stop: 50868, Start Num: 15

Candidate Starts for Brunswick\_78:

(Start: 15 @50656 has 19 MA's), (21, 50731), (32, 50815), (36, 50833),

Gene: Brunswick\_90 Start: 53603, Stop: 53848, Start Num: 3

Candidate Starts for Brunswick\_90:

(Start: 3 @53603 has 1 MA's), (20, 53711),

Gene: CapnMurica\_73 Start: 50988, Stop: 51197, Start Num: 15

Candidate Starts for CapnMurica\_73:

(Start: 15 @50988 has 19 MA's), (29, 51120), (32, 51144), (36, 51162),

Gene: CastorTray\_79 Start: 51040, Stop: 51249, Start Num: 15

Candidate Starts for CastorTray\_79:

(Start: 15 @51040 has 19 MA's), (21, 51112), (29, 51172), (36, 51214),

Gene: Darby\_73 Start: 50086, Stop: 50295, Start Num: 15

Candidate Starts for Darby\_73:

(Start: 15 @50086 has 19 MA's), (21, 50158), (29, 50218), (36, 50260),

Gene: DevitoJr\_76 Start: 50468, Stop: 50677, Start Num: 15

Candidate Starts for DevitoJr\_76:

(Start: 15 @50468 has 19 MA's), (29, 50600), (36, 50642),

Gene: ElephantMan\_77 Start: 51249, Stop: 51461, Start Num: 15

Candidate Starts for ElephantMan\_77:

(Start: 15 @51249 has 19 MA's), (21, 51324), (32, 51408), (36, 51426),

Gene: Elver\_205 Start: 97047, Stop: 97292, Start Num: 6

Candidate Starts for Elver\_205:

(Start: 6 @97047 has 2 MA's), (25, 97179), (29, 97203), (30, 97221), (37, 97248), (40, 97272),

Gene: Elver\_206 Start: 97289, Stop: 97528, Start Num: 7

Candidate Starts for Elver\_206:

(Start: 7 @97289 has 2 MA's), (26, 97433), (34, 97478), (40, 97517),

Gene: GantcherGoblin\_87 Start: 50825, Stop: 51037, Start Num: 14

Candidate Starts for GantcherGoblin\_87:

(Start: 14 @50825 has 1 MA's), (18, 50867),

Gene: Giantsbane\_81 Start: 49891, Stop: 50094, Start Num: 15

Candidate Starts for Giantsbane\_81:

(Start: 15 @49891 has 19 MA's), (23, 49981), (29, 50020),

Gene: Gordon\_73 Start: 50882, Stop: 51091, Start Num: 15

Candidate Starts for Gordon\_73:

(Start: 15 @50882 has 19 MA's), (21, 50954), (29, 51014), (36, 51056),

Gene: Ingrid\_83 Start: 50857, Stop: 51060, Start Num: 16

Candidate Starts for Ingrid\_83:

(5, 50821), (Start: 16 @50857 has 6 MA's), (31, 51007), (34, 51016), (36, 51028), (38, 51034),

Gene: Inked\_83 Start: 51558, Stop: 51761, Start Num: 15

Candidate Starts for Inked\_83:

(Start: 15 @51558 has 19 MA's), (21, 51630), (23, 51648), (29, 51687), (31, 51708), (34, 51717), (38, 51735),

Gene: Issa\_74 Start: 50059, Stop: 50268, Start Num: 15

Candidate Starts for Issa\_74:

(Start: 15 @50059 has 19 MA's), (29, 50191), (32, 50215), (36, 50233),

Gene: Issa\_84 Start: 52854, Stop: 53099, Start Num: 3

Candidate Starts for Issa\_84:

(Start: 3 @52854 has 1 MA's), (20, 52962),

Gene: Jazzy4900\_76 Start: 49976, Stop: 50197, Start Num: 9

Candidate Starts for Jazzy4900\_76:

(9, 49976), (23, 50078), (33, 50147), (35, 50156), (38, 50168),

Gene: Leathea\_85 Start: 48722, Stop: 48952, Start Num: 10

Candidate Starts for Leathea\_85:

(10, 48722), (17, 48737), (22, 48821), (28, 48860), (35, 48896), (38, 48908),

Gene: LilHuddy\_81 Start: 51056, Stop: 51256, Start Num: 16

Candidate Starts for LilHuddy\_81:

(Start: 16 @51056 has 6 MA's), (18, 51098), (29, 51182),

Gene: Loretta\_79 Start: 50857, Stop: 51060, Start Num: 16

Candidate Starts for Loretta\_79:

(5, 50821), (Start: 16 @50857 has 6 MA's), (31, 51007), (34, 51016), (36, 51028), (38, 51034),

Gene: MiniBagel\_77 Start: 50992, Stop: 51201, Start Num: 15

Candidate Starts for MiniBagel\_77:

(Start: 15 @50992 has 19 MA's), (21, 51064), (29, 51124), (32, 51148), (36, 51166),

Gene: Nightmare\_78 Start: 51419, Stop: 51631, Start Num: 15

Candidate Starts for Nightmare\_78:

(Start: 15 @51419 has 19 MA's), (21, 51494), (32, 51578), (36, 51596),

Gene: Niktson\_77 Start: 51249, Stop: 51461, Start Num: 15

Candidate Starts for Niktson\_77:

(Start: 15 @51249 has 19 MA's), (21, 51324), (32, 51408), (36, 51426),

Gene: Nivinsha\_78 Start: 50523, Stop: 50732, Start Num: 15

Candidate Starts for Nivinsha\_78:

(Start: 15 @50523 has 19 MA's), (21, 50595), (29, 50655), (32, 50679), (36, 50697),

Gene: Paella\_209 Start: 97932, Stop: 98177, Start Num: 6

Candidate Starts for Paella\_209:

(Start: 6 @97932 has 2 MA's), (25, 98064), (29, 98088), (30, 98106), (37, 98133), (40, 98157),

Gene: Paella\_210 Start: 98174, Stop: 98413, Start Num: 7

Candidate Starts for Paella\_210:

(Start: 7 @98174 has 2 MA's), (26, 98318), (34, 98363), (40, 98402),

Gene: Phaby\_83 Start: 51533, Stop: 51733, Start Num: 16

Candidate Starts for Phaby\_83:

(Start: 16 @51533 has 6 MA's), (29, 51659),

Gene: Qui\_209 Start: 97920, Stop: 98165, Start Num: 6

Candidate Starts for Qui\_209:

(Start: 6 @97920 has 2 MA's), (25, 98052), (29, 98076), (30, 98094), (37, 98121), (40, 98145),

Gene: Qui\_210 Start: 98162, Stop: 98401, Start Num: 7

Candidate Starts for Qui\_210:

(Start: 7 @98162 has 2 MA's), (26, 98306), (34, 98351), (40, 98390),

Gene: ScienceWizSam\_78 Start: 50641, Stop: 50850, Start Num: 15

Candidate Starts for ScienceWizSam\_78:

(Start: 15 @50641 has 19 MA's), (21, 50713), (29, 50773), (36, 50815),

Gene: Shepard\_82 Start: 50925, Stop: 51125, Start Num: 16

Candidate Starts for Shepard\_82:

(Start: 16 @50925 has 6 MA's), (18, 50967), (29, 51051),

Gene: Sunny4976\_75 Start: 49976, Stop: 50197, Start Num: 9

Candidate Starts for Sunny4976\_75:  
(9, 49976), (23, 50078), (33, 50147), (35, 50156), (38, 50168),

Gene: Synepsis\_72 Start: 50449, Stop: 50658, Start Num: 15  
Candidate Starts for Synepsis\_72:  
(Start: 15 @50449 has 19 MA's), (21, 50521), (32, 50605), (36, 50623),

Gene: Tatanka\_71 Start: 50627, Stop: 50836, Start Num: 15  
Candidate Starts for Tatanka\_71:  
(Start: 15 @50627 has 19 MA's), (21, 50699), (29, 50759), (36, 50801),

Gene: Teacup\_78 Start: 51310, Stop: 51522, Start Num: 15  
Candidate Starts for Teacup\_78:  
(Start: 15 @51310 has 19 MA's), (21, 51385), (32, 51469), (36, 51487),

Gene: Tenno\_76 Start: 51025, Stop: 51234, Start Num: 15  
Candidate Starts for Tenno\_76:  
(Start: 15 @51025 has 19 MA's), (29, 51157), (32, 51181), (36, 51199),

Gene: Tokki\_87 Start: 51338, Stop: 51538, Start Num: 16  
Candidate Starts for Tokki\_87:  
(Start: 16 @51338 has 6 MA's), (29, 51464),

Gene: TrixiePhattel\_83 Start: 48318, Stop: 48527, Start Num: 12  
Candidate Starts for TrixiePhattel\_83:  
(12, 48318), (13, 48324), (19, 48378), (21, 48396), (24, 48423), (32, 48474), (34, 48480), (40, 48516),

Gene: Trustiboi\_75 Start: 50730, Stop: 50939, Start Num: 15  
Candidate Starts for Trustiboi\_75:  
(Start: 15 @50730 has 19 MA's), (21, 50802), (29, 50862), (32, 50886), (36, 50904),

Gene: Uzumaki\_88 Start: 50799, Stop: 51023, Start Num: 8  
Candidate Starts for Uzumaki\_88:  
(Start: 8 @50799 has 2 MA's), (27, 50937), (29, 50943), (38, 50988), (39, 50991),