

Pham 203139



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 203139 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203139 has 36 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Jesabah\_59, Mesmerelda\_60
- Track 2 : Banjo\_58
- Track 3 : Nyala\_58, Selr12\_60, Olak\_58, Tomlarah\_60, ShiVal\_57, Dice\_58, Vaticameos\_56
- Track 4 : Mecca\_59, Samaymay\_59, Omniscient\_60, Lego3393\_58, CamL\_59, Bluephacebaby\_59, Kimbrough\_60, ProfessorX\_59
- Track 5 : QueenBeane\_59
- Track 6 : Fanaw\_51
- Track 7 : EastView9101\_56
- Track 8 : Nangang\_57
- Track 9 : KarasumaRum\_57, StinkyVeggy\_57
- Track 10 : Shenyu\_57
- Track 11 : Suigeneris\_58
- Track 12 : Rich\_57
- Track 13 : Phelemich\_55, Reprobate\_56
- Track 14 : Serendipitous\_55
- Track 15 : Mysterious\_57, Nehemiah\_56
- Track 16 : Bae\_58
- Track 17 : SirJeffery\_56
- Track 18 : Rinkes\_55
- Track 19 : CRB2\_56

### ***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 15 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bluephacebaby\_59, CamL\_59, Dice\_58, Kimbrough\_60, Lego3393\_58, Mecca\_59, Nyala\_58, Olak\_58, Omniscient\_60, ProfessorX\_59, Samaymay\_59, Selr12\_60, ShiVal\_57, Tomlarah\_60, Vaticameos\_56,

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

- Banjo\_58, QueenBeane\_59,

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

• Bae\_58, CRB2\_56, EastView9101\_56, Fanaw\_51, Jesabah\_59, KarasumaRum\_57, Mesmerelda\_60, Mysterious\_57, Nangang\_57, Nehemiah\_56, Phelemich\_55, Reprobate\_56, Rich\_57, Rinkes\_55, Serendipitous\_55, Shenyu\_57, SirJeffery\_56, StinkyVeggy\_57, Suigeneris\_58,

### Summary by start number:

Start 1:

- Found in 1 of 36 ( 2.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fanaw\_51 (B4),

Start 2:

- Found in 10 of 36 ( 27.8% ) of genes in pham
- Manual Annotations of this start: 6 of 26
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bae\_58 (B5), EastView9101\_56 (B5), Mysterious\_57 (B5), Nehemiah\_56 (B5), Phelemich\_55 (B5), Reprobate\_56 (B5), Serendipitous\_55 (B5), Suigeneris\_58 (B5),

Start 7:

- Found in 19 of 36 ( 52.8% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 15.8% of time when present
- Phage (with cluster) where this start called: Banjo\_58 (B1), Jesabah\_59 (B1), Mesmerelda\_60 (B1),

Start 8:

- Found in 17 of 36 ( 47.2% ) of genes in pham
- Manual Annotations of this start: 15 of 26
- Called 88.2% of time when present
- Phage (with cluster) where this start called: Bluephacebaby\_59 (B1), CamL\_59 (B1), Dice\_58 (B1), Kimbrough\_60 (B1), Lego3393\_58 (B1), Mecca\_59 (B1), Nyala\_58 (B1), Olak\_58 (B1), Omniscient\_60 (B1), ProfessorX\_59 (B1), Samaymay\_59 (B1), Selr12\_60 (B1), ShiVal\_57 (B1), Tomlrah\_60 (B1), Vaticameos\_56 (B1),

Start 9:

- Found in 5 of 36 ( 13.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 80.0% of time when present
- Phage (with cluster) where this start called: KarasumaRum\_57 (B5), Nangang\_57 (B5), Shenyu\_57 (B5), StinkyVeggy\_57 (B5),

Start 11:

- Found in 1 of 36 ( 2.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SirJeffery\_56 (B5),

Start 12:

- Found in 19 of 36 ( 52.8% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 5.3% of time when present
- Phage (with cluster) where this start called: QueenBeane\_59 (B1),

Start 16:

- Found in 12 of 36 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Rich\_57 (B5),

Start 19:

- Found in 2 of 36 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2\_56 (B9), Rinkes\_55 (B9),

### **Summary by clusters:**

There are 4 clusters represented in this pham: B4, B5, B9, B1,

Info for manual annotations of cluster B1:

- Start number 7 was manually annotated 1 time for cluster B1.
- Start number 8 was manually annotated 15 times for cluster B1.
- Start number 12 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B5:

- Start number 2 was manually annotated 6 times for cluster B5.
- Start number 16 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B9:

- Start number 19 was manually annotated 2 times for cluster B9.

### **Gene Information:**

Gene: Baee\_58 Start: 53704, Stop: 53204, Start Num: 2

Candidate Starts for Baee\_58:

(Start: 2 @53704 has 6 MA's), (15, 53590), (Start: 16 @53587 has 1 MA's), (35, 53518), (46, 53383), (54, 53338),

Gene: Banjo\_58 Start: 52199, Stop: 51576, Start Num: 7

Candidate Starts for Banjo\_58:

(4, 52253), (Start: 7 @52199 has 1 MA's), (Start: 8 @52187 has 15 MA's), (10, 52160), (Start: 12 @52142 has 1 MA's), (18, 52088), (20, 52055), (24, 52022), (31, 51932), (44, 51770), (45, 51758), (50, 51731), (60, 51608),

Gene: Bluephacebaby\_59 Start: 52729, Stop: 52118, Start Num: 8

Candidate Starts for Bluephacebaby\_59:

(4, 52795), (Start: 7 @52741 has 1 MA's), (Start: 8 @52729 has 15 MA's), (10, 52702), (Start: 12 @52684 has 1 MA's), (18, 52630), (20, 52597), (24, 52564), (31, 52474), (44, 52312), (45, 52300), (50,

52273), (60, 52150),

Gene: CRB2\_56 Start: 53718, Stop: 53233, Start Num: 19

Candidate Starts for CRB2\_56:

(9, 53814), (Start: 19 @53718 has 2 MA's), (20, 53694), (39, 53499), (45, 53412), (54, 53355),

Gene: CamL\_59 Start: 52494, Stop: 51883, Start Num: 8

Candidate Starts for CamL\_59:

(4, 52560), (Start: 7 @52506 has 1 MA's), (Start: 8 @52494 has 15 MA's), (10, 52467), (Start: 12 @52449 has 1 MA's), (18, 52395), (20, 52362), (24, 52329), (31, 52239), (44, 52077), (45, 52065), (50, 52038), (60, 51915),

Gene: Dice\_58 Start: 52160, Stop: 51549, Start Num: 8

Candidate Starts for Dice\_58:

(4, 52226), (Start: 7 @52172 has 1 MA's), (Start: 8 @52160 has 15 MA's), (10, 52133), (Start: 12 @52115 has 1 MA's), (18, 52061), (20, 52028), (24, 51995), (31, 51905), (44, 51743), (45, 51731), (50, 51704), (51, 51689), (60, 51581),

Gene: EastView9101\_56 Start: 52507, Stop: 51881, Start Num: 2

Candidate Starts for EastView9101\_56:

(Start: 2 @52507 has 6 MA's), (Start: 16 @52390 has 1 MA's), (28, 52288), (35, 52198), (47, 52060), (54, 52018),

Gene: Fanaw\_51 Start: 51919, Stop: 51119, Start Num: 1

Candidate Starts for Fanaw\_51:

(1, 51919), (3, 51895), (13, 51760), (14, 51709), (21, 51631), (30, 51538), (34, 51469), (36, 51433), (37, 51424), (40, 51361), (41, 51358), (46, 51286), (47, 51283), (54, 51241), (56, 51226), (59, 51175),

Gene: Jesabah\_59 Start: 52768, Stop: 52139, Start Num: 7

Candidate Starts for Jesabah\_59:

(Start: 7 @52768 has 1 MA's), (10, 52723), (Start: 12 @52705 has 1 MA's), (18, 52651), (20, 52618), (24, 52585), (31, 52495), (44, 52333), (45, 52321), (50, 52294), (51, 52279), (60, 52171),

Gene: KarasumaRum\_57 Start: 52746, Stop: 52102, Start Num: 9

Candidate Starts for KarasumaRum\_57:

(9, 52746), (Start: 16 @52632 has 1 MA's), (26, 52551), (27, 52548), (29, 52530), (30, 52521), (35, 52425), (47, 52278), (53, 52221),

Gene: Kimbrough\_60 Start: 52742, Stop: 52131, Start Num: 8

Candidate Starts for Kimbrough\_60:

(4, 52808), (Start: 7 @52754 has 1 MA's), (Start: 8 @52742 has 15 MA's), (10, 52715), (Start: 12 @52697 has 1 MA's), (18, 52643), (20, 52610), (24, 52577), (31, 52487), (44, 52325), (45, 52313), (50, 52286), (60, 52163),

Gene: Lego3393\_58 Start: 52733, Stop: 52122, Start Num: 8

Candidate Starts for Lego3393\_58:

(4, 52799), (Start: 7 @52745 has 1 MA's), (Start: 8 @52733 has 15 MA's), (10, 52706), (Start: 12 @52688 has 1 MA's), (18, 52634), (20, 52601), (24, 52568), (31, 52478), (44, 52316), (45, 52304), (50, 52277), (60, 52154),

Gene: Mecca\_59 Start: 52730, Stop: 52119, Start Num: 8

Candidate Starts for Mecca\_59:

(4, 52796), (Start: 7 @52742 has 1 MA's), (Start: 8 @52730 has 15 MA's), (10, 52703), (Start: 12 @52685 has 1 MA's), (18, 52631), (20, 52598), (24, 52565), (31, 52475), (44, 52313), (45, 52301), (50, 52274), (60, 52151),

Gene: Mesmerelda\_60 Start: 52199, Stop: 51570, Start Num: 7

Candidate Starts for Mesmerelda\_60:

(Start: 7 @52199 has 1 MA's), (10, 52154), (Start: 12 @52136 has 1 MA's), (18, 52082), (20, 52049), (24, 52016), (31, 51926), (44, 51764), (45, 51752), (50, 51725), (51, 51710), (60, 51602),

Gene: Mysterious\_57 Start: 52741, Stop: 52097, Start Num: 2

Candidate Starts for Mysterious\_57:

(Start: 2 @52741 has 6 MA's), (Start: 16 @52615 has 1 MA's), (32, 52447), (35, 52423), (47, 52273), (49, 52258), (53, 52216),

Gene: Nangang\_57 Start: 52928, Stop: 52311, Start Num: 9

Candidate Starts for Nangang\_57:

(9, 52928), (15, 52817), (17, 52811), (25, 52748), (26, 52739), (35, 52637), (47, 52487), (53, 52430),

Gene: Nehemiah\_56 Start: 52741, Stop: 52097, Start Num: 2

Candidate Starts for Nehemiah\_56:

(Start: 2 @52741 has 6 MA's), (Start: 16 @52615 has 1 MA's), (32, 52447), (35, 52423), (47, 52273), (49, 52258), (53, 52216),

Gene: Nyala\_58 Start: 52175, Stop: 51564, Start Num: 8

Candidate Starts for Nyala\_58:

(4, 52241), (Start: 7 @52187 has 1 MA's), (Start: 8 @52175 has 15 MA's), (10, 52148), (Start: 12 @52130 has 1 MA's), (18, 52076), (20, 52043), (24, 52010), (31, 51920), (44, 51758), (45, 51746), (50, 51719), (51, 51704), (60, 51596),

Gene: Olak\_58 Start: 52178, Stop: 51567, Start Num: 8

Candidate Starts for Olak\_58:

(4, 52244), (Start: 7 @52190 has 1 MA's), (Start: 8 @52178 has 15 MA's), (10, 52151), (Start: 12 @52133 has 1 MA's), (18, 52079), (20, 52046), (24, 52013), (31, 51923), (44, 51761), (45, 51749), (50, 51722), (51, 51707), (60, 51599),

Gene: Omniscient\_60 Start: 53038, Stop: 52427, Start Num: 8

Candidate Starts for Omniscient\_60:

(4, 53104), (Start: 7 @53050 has 1 MA's), (Start: 8 @53038 has 15 MA's), (10, 53011), (Start: 12 @52993 has 1 MA's), (18, 52939), (20, 52906), (24, 52873), (31, 52783), (44, 52621), (45, 52609), (50, 52582), (60, 52459),

Gene: Phelemich\_55 Start: 52737, Stop: 52096, Start Num: 2

Candidate Starts for Phelemich\_55:

(Start: 2 @52737 has 6 MA's), (Start: 16 @52611 has 1 MA's), (23, 52566), (32, 52443), (33, 52440), (35, 52419), (47, 52272), (48, 52260), (53, 52215),

Gene: ProfessorX\_59 Start: 52187, Stop: 51576, Start Num: 8

Candidate Starts for ProfessorX\_59:

(4, 52253), (Start: 7 @52199 has 1 MA's), (Start: 8 @52187 has 15 MA's), (10, 52160), (Start: 12 @52142 has 1 MA's), (18, 52088), (20, 52055), (24, 52022), (31, 51932), (44, 51770), (45, 51758), (50, 51731), (60, 51608),

Gene: QueenBeane\_59 Start: 52449, Stop: 51883, Start Num: 12

Candidate Starts for QueenBeane\_59:

(4, 52560), (Start: 7 @52506 has 1 MA's), (Start: 8 @52494 has 15 MA's), (10, 52467), (Start: 12 @52449 has 1 MA's), (18, 52395), (20, 52362), (24, 52329), (31, 52239), (44, 52077), (45, 52065), (50, 52038), (60, 51915),

Gene: Reprobate\_56 Start: 52742, Stop: 52101, Start Num: 2

Candidate Starts for Reprobate\_56:

(Start: 2 @52742 has 6 MA's), (Start: 16 @52616 has 1 MA's), (23, 52571), (32, 52448), (33, 52445), (35, 52424), (47, 52277), (48, 52265), (53, 52220),

Gene: Rich\_57 Start: 53862, Stop: 53494, Start Num: 16

Candidate Starts for Rich\_57:

(Start: 2 @53979 has 6 MA's), (15, 53865), (Start: 16 @53862 has 1 MA's), (35, 53793), (46, 53658), (54, 53613),

Gene: Rinkes\_55 Start: 52581, Stop: 52141, Start Num: 19

Candidate Starts for Rinkes\_55:

(Start: 19 @52581 has 2 MA's), (38, 52422), (50, 52290), (52, 52269), (55, 52260), (57, 52206), (58, 52200),

Gene: Samaymay\_59 Start: 52494, Stop: 51883, Start Num: 8

Candidate Starts for Samaymay\_59:

(4, 52560), (Start: 7 @52506 has 1 MA's), (Start: 8 @52494 has 15 MA's), (10, 52467), (Start: 12 @52449 has 1 MA's), (18, 52395), (20, 52362), (24, 52329), (31, 52239), (44, 52077), (45, 52065), (50, 52038), (60, 51915),

Gene: Selr12\_60 Start: 52203, Stop: 51592, Start Num: 8

Candidate Starts for Selr12\_60:

(4, 52269), (Start: 7 @52215 has 1 MA's), (Start: 8 @52203 has 15 MA's), (10, 52176), (Start: 12 @52158 has 1 MA's), (18, 52104), (20, 52071), (24, 52038), (31, 51948), (44, 51786), (45, 51774), (50, 51747), (51, 51732), (60, 51624),

Gene: Serendipitous\_55 Start: 51901, Stop: 51308, Start Num: 2

Candidate Starts for Serendipitous\_55:

(Start: 2 @51901 has 6 MA's), (5, 51865), (Start: 16 @51808 has 1 MA's), (23, 51763), (33, 51637), (42, 51532), (43, 51514), (47, 51478), (51, 51448), (59, 51370),

Gene: Shenyu\_57 Start: 52961, Stop: 52323, Start Num: 9

Candidate Starts for Shenyu\_57:

(6, 52985), (9, 52961), (Start: 16 @52844 has 1 MA's), (22, 52802), (25, 52757), (28, 52736), (35, 52646), (47, 52499), (53, 52442),

Gene: ShiVal\_57 Start: 52198, Stop: 51587, Start Num: 8

Candidate Starts for ShiVal\_57:

(4, 52264), (Start: 7 @52210 has 1 MA's), (Start: 8 @52198 has 15 MA's), (10, 52171), (Start: 12 @52153 has 1 MA's), (18, 52099), (20, 52066), (24, 52033), (31, 51943), (44, 51781), (45, 51769), (50, 51742), (51, 51727), (60, 51619),

Gene: SirJeffery\_56 Start: 52558, Stop: 51962, Start Num: 11

Candidate Starts for SirJeffery\_56:

(Start: 2 @52672 has 6 MA's), (11, 52558), (35, 52279), (47, 52138), (53, 52081),

Gene: StinkyVeggy\_57 Start: 52746, Stop: 52102, Start Num: 9

Candidate Starts for StinkyVeggy\_57:

(9, 52746), (Start: 16 @52632 has 1 MA's), (26, 52551), (27, 52548), (29, 52530), (30, 52521), (35, 52425), (47, 52278), (53, 52221),

Gene: Suigeneris\_58 Start: 52838, Stop: 52212, Start Num: 2

Candidate Starts for Suigeneris\_58:

(Start: 2 @52838 has 6 MA's), (Start: 16 @52721 has 1 MA's), (28, 52619), (35, 52529), (47, 52388), (53, 52331),

Gene: Tomlarah\_60 Start: 53022, Stop: 52411, Start Num: 8

Candidate Starts for Tomlarah\_60:

(4, 53088), (Start: 7 @53034 has 1 MA's), (Start: 8 @53022 has 15 MA's), (10, 52995), (Start: 12 @52977 has 1 MA's), (18, 52923), (20, 52890), (24, 52857), (31, 52767), (44, 52605), (45, 52593), (50, 52566), (51, 52551), (60, 52443),

Gene: Vaticameos\_56 Start: 50713, Stop: 50102, Start Num: 8

Candidate Starts for Vaticameos\_56:

(4, 50779), (Start: 7 @50725 has 1 MA's), (Start: 8 @50713 has 15 MA's), (10, 50686), (Start: 12 @50668 has 1 MA's), (18, 50614), (20, 50581), (24, 50548), (31, 50458), (44, 50296), (45, 50284), (50, 50257), (51, 50242), (60, 50134),