

Pham 292926



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 292926 Report

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

Pham number 292926 has 45 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Hashim76\_67
- Track 2 : Stinger\_59
- Track 3 : Epah\_57, Fortunato\_59, BobbyK\_59, Hally898\_57, BrownCNA\_60, ChrisnMich\_58, Fanaw\_57, GinPorsche\_58, Heath\_57, Antihero\_57, JoyceMaria\_58, Hangman\_58, Waleliano\_58, VioletZ\_60, Magpie\_57, Poster\_57, Mithril\_58, Ahwei\_57, Frederick\_59, Lolalove\_59, Nanao\_57, Lambano\_57, Zemanar\_59, RawrgerThat\_59
- Track 4 : Cooper\_60
- Track 5 : Vincenzo\_61, AlanGrant\_62
- Track 6 : Prince\_58, Apex\_59, Austelle\_59, Mudslide\_58, Hydro\_58
- Track 7 : JaguarMi\_60
- Track 8 : JAMaL\_58, LittleDigger\_57, Renkei\_57
- Track 9 : QueenPie\_56
- Track 10 : Xincheng\_59
- Track 11 : Nigel\_58
- Track 12 : Knocker\_63
- Track 13 : Quesadilla\_63
- Track 14 : SFuller\_105
- Track 15 : Madraxi\_107

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

The start number called the most often in the published annotations is 4, it was called in 28 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ahwei\_57, AlanGrant\_62, Antihero\_57, Apex\_59, Austelle\_59, BobbyK\_59, BrownCNA\_60, ChrisnMich\_58, Cooper\_60, Epah\_57, Fanaw\_57, Fortunato\_59, Frederick\_59, GinPorsche\_58, Hally898\_57, Hangman\_58, Hashim76\_67, Heath\_57, Hydro\_58, JAMaL\_58, JaguarMi\_60, JoyceMaria\_58, Knocker\_63, Lambano\_57, LittleDigger\_57, Lolalove\_59, Magpie\_57, Mithril\_58, Mudslide\_58, Nanao\_57, Nigel\_58, Poster\_57, Prince\_58, QueenPie\_56, RawrgerThat\_59, Renkei\_57, Stinger\_59, Vincenzo\_61, VioletZ\_60, Waleliano\_58, Xincheng\_59, Zemanar\_59,

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

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

- Madraxi\_107, Quesadilla\_63, SFuller\_105,

### Summary by start number:

Start 4:

- Found in 42 of 45 ( 93.3% ) of genes in pham
- Manual Annotations of this start: 28 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ahwei\_57 (B4), AlanGrant\_62 (B4), Antihero\_57 (B4), Apex\_59 (B4), Austelle\_59 (B4), BobbyK\_59 (B4), BrownCNA\_60 (B4), ChrisnMich\_58 (B4), Cooper\_60 (B4), Epah\_57 (B4), Fanaw\_57 (B4), Fortunato\_59 (B4), Frederick\_59 (B4), GinPorsche\_58 (B4), Hally898\_57 (B4), Hangman\_58 (B4), Hashim76\_67 (B13), Heath\_57 (B4), Hydro\_58 (B4), JAMaL\_58 (B4), JaguarMi\_60 (B4), JoyceMaria\_58 (B4), Knocker\_63 (B9), Lambano\_57 (B4), LittleDigger\_57 (B4), Lolalove\_59 (B4), Magpie\_57 (B4), Mithril\_58 (B4), Mudslide\_58 (B4), Nanao\_57 (B4), Nigel\_58 (B4), Poster\_57 (B4), Prince\_58 (B4), QueenPie\_56 (B4), RawrgerThat\_59 (B4), Renkei\_57 (B4), Stinger\_59 (B4), Vincenzo\_61 (B4), VioletZ\_60 (B4), Waleliano\_58 (B4), Xincheng\_59 (B4), Zemanar\_59 (B4),

Start 5:

- Found in 1 of 45 ( 2.2% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Quesadilla\_63 (B9),

Start 9:

- Found in 2 of 45 ( 4.4% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Madraxi\_107 (CF), SFuller\_105 (CF),

### Summary by clusters:

There are 4 clusters represented in this pham: B4, B9, CF, B13,

Info for manual annotations of cluster B13:

- Start number 4 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B4:

- Start number 4 was manually annotated 26 times for cluster B4.

Info for manual annotations of cluster B9:

- Start number 4 was manually annotated 1 time for cluster B9.
- Start number 5 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster CF:

- Start number 9 was manually annotated 1 time for cluster CF.

### **Gene Information:**

Gene: Ahwei\_57 Start: 55326, Stop: 55054, Start Num: 4

Candidate Starts for Ahwei\_57:

(Start: 4 @55326 has 28 MA's), (6, 55299), (7, 55296), (10, 55257), (23, 55152), (24, 55125), (25, 55113), (27, 55095), (29, 55086),

Gene: AlanGrant\_62 Start: 57505, Stop: 57170, Start Num: 4

Candidate Starts for AlanGrant\_62:

(Start: 4 @57505 has 28 MA's), (6, 57478), (10, 57436), (13, 57391), (17, 57361), (20, 57337), (21, 57334), (29, 57217), (33, 57190),

Gene: Antihero\_57 Start: 55324, Stop: 55052, Start Num: 4

Candidate Starts for Antihero\_57:

(Start: 4 @55324 has 28 MA's), (6, 55297), (7, 55294), (10, 55255), (23, 55150), (24, 55123), (25, 55111), (27, 55093), (29, 55084),

Gene: Apex\_59 Start: 56547, Stop: 56275, Start Num: 4

Candidate Starts for Apex\_59:

(Start: 4 @56547 has 28 MA's), (6, 56520), (7, 56517), (10, 56478), (23, 56373), (24, 56346), (25, 56334), (27, 56316), (29, 56307), (32, 56292),

Gene: Austelle\_59 Start: 57003, Stop: 56731, Start Num: 4

Candidate Starts for Austelle\_59:

(Start: 4 @57003 has 28 MA's), (6, 56976), (7, 56973), (10, 56934), (23, 56829), (24, 56802), (25, 56790), (27, 56772), (29, 56763), (32, 56748),

Gene: BobbyK\_59 Start: 56313, Stop: 56041, Start Num: 4

Candidate Starts for BobbyK\_59:

(Start: 4 @56313 has 28 MA's), (6, 56286), (7, 56283), (10, 56244), (23, 56139), (24, 56112), (25, 56100), (27, 56082), (29, 56073),

Gene: BrownCNA\_60 Start: 56670, Stop: 56398, Start Num: 4

Candidate Starts for BrownCNA\_60:

(Start: 4 @56670 has 28 MA's), (6, 56643), (7, 56640), (10, 56601), (23, 56496), (24, 56469), (25, 56457), (27, 56439), (29, 56430),

Gene: ChrisnMich\_58 Start: 55338, Stop: 55066, Start Num: 4

Candidate Starts for ChrisnMich\_58:

(Start: 4 @55338 has 28 MA's), (6, 55311), (7, 55308), (10, 55269), (23, 55164), (24, 55137), (25, 55125), (27, 55107), (29, 55098),

Gene: Cooper\_60 Start: 55804, Stop: 55523, Start Num: 4

Candidate Starts for Cooper\_60:

(Start: 4 @55804 has 28 MA's), (6, 55777), (10, 55735), (11, 55729), (16, 55684), (22, 55633), (23, 55609), (25, 55570), (30, 55537),

Gene: Epah\_57 Start: 55324, Stop: 55052, Start Num: 4

Candidate Starts for Epah\_57:

(Start: 4 @55324 has 28 MA's), (6, 55297), (7, 55294), (10, 55255), (23, 55150), (24, 55123), (25, 55111), (27, 55093), (29, 55084),

Gene: Fanaw\_57 Start: 56225, Stop: 55953, Start Num: 4

Candidate Starts for Fanaw\_57:

(Start: 4 @56225 has 28 MA's), (6, 56198), (7, 56195), (10, 56156), (23, 56051), (24, 56024), (25, 56012), (27, 55994), (29, 55985),

Gene: Fortunato\_59 Start: 56365, Stop: 56093, Start Num: 4

Candidate Starts for Fortunato\_59:

(Start: 4 @56365 has 28 MA's), (6, 56338), (7, 56335), (10, 56296), (23, 56191), (24, 56164), (25, 56152), (27, 56134), (29, 56125),

Gene: Frederick\_59 Start: 56256, Stop: 55984, Start Num: 4

Candidate Starts for Frederick\_59:

(Start: 4 @56256 has 28 MA's), (6, 56229), (7, 56226), (10, 56187), (23, 56082), (24, 56055), (25, 56043), (27, 56025), (29, 56016),

Gene: GinPorsche\_58 Start: 55324, Stop: 55052, Start Num: 4

Candidate Starts for GinPorsche\_58:

(Start: 4 @55324 has 28 MA's), (6, 55297), (7, 55294), (10, 55255), (23, 55150), (24, 55123), (25, 55111), (27, 55093), (29, 55084),

Gene: Hally898\_57 Start: 55339, Stop: 55067, Start Num: 4

Candidate Starts for Hally898\_57:

(Start: 4 @55339 has 28 MA's), (6, 55312), (7, 55309), (10, 55270), (23, 55165), (24, 55138), (25, 55126), (27, 55108), (29, 55099),

Gene: Hangman\_58 Start: 56413, Stop: 56141, Start Num: 4

Candidate Starts for Hangman\_58:

(Start: 4 @56413 has 28 MA's), (6, 56386), (7, 56383), (10, 56344), (23, 56239), (24, 56212), (25, 56200), (27, 56182), (29, 56173),

Gene: Hashim76\_67 Start: 56917, Stop: 56558, Start Num: 4

Candidate Starts for Hashim76\_67:

(1, 56998), (2, 56968), (Start: 4 @56917 has 28 MA's), (12, 56830), (19, 56734), (26, 56635), (29, 56611), (31, 56602), (35, 56578),

Gene: Heath\_57 Start: 56039, Stop: 55767, Start Num: 4

Candidate Starts for Heath\_57:

(Start: 4 @56039 has 28 MA's), (6, 56012), (7, 56009), (10, 55970), (23, 55865), (24, 55838), (25, 55826), (27, 55808), (29, 55799),

Gene: Hydro\_58 Start: 56390, Stop: 56118, Start Num: 4

Candidate Starts for Hydro\_58:

(Start: 4 @56390 has 28 MA's), (6, 56363), (7, 56360), (10, 56321), (23, 56216), (24, 56189), (25, 56177), (27, 56159), (29, 56150), (32, 56135),

Gene: JAMaL\_58 Start: 56431, Stop: 56159, Start Num: 4

Candidate Starts for JAMaL\_58:

(Start: 4 @56431 has 28 MA's), (6, 56404), (7, 56401), (10, 56362), (23, 56257), (24, 56230), (25, 56218), (27, 56200),

Gene: JaguarMi\_60 Start: 57457, Stop: 57185, Start Num: 4

Candidate Starts for JaguarMi\_60:

(Start: 4 @57457 has 28 MA's), (6, 57430), (7, 57427), (8, 57409), (10, 57388), (23, 57283), (24, 57256), (25, 57244), (27, 57226), (29, 57217),

Gene: JoyceMaria\_58 Start: 56293, Stop: 56021, Start Num: 4

Candidate Starts for JoyceMaria\_58:

(Start: 4 @56293 has 28 MA's), (6, 56266), (7, 56263), (10, 56224), (23, 56119), (24, 56092), (25, 56080), (27, 56062), (29, 56053),

Gene: Knocker\_63 Start: 57737, Stop: 57396, Start Num: 4

Candidate Starts for Knocker\_63:

(Start: 4 @57737 has 28 MA's), (13, 57617), (18, 57575), (19, 57566), (26, 57467), (29, 57443), (35, 57410), (36, 57407),

Gene: Lambano\_57 Start: 55339, Stop: 55067, Start Num: 4

Candidate Starts for Lambano\_57:

(Start: 4 @55339 has 28 MA's), (6, 55312), (7, 55309), (10, 55270), (23, 55165), (24, 55138), (25, 55126), (27, 55108), (29, 55099),

Gene: LittleDigger\_57 Start: 55349, Stop: 55077, Start Num: 4

Candidate Starts for LittleDigger\_57:

(Start: 4 @55349 has 28 MA's), (6, 55322), (7, 55319), (10, 55280), (23, 55175), (24, 55148), (25, 55136), (27, 55118),

Gene: Lolalove\_59 Start: 56370, Stop: 56098, Start Num: 4

Candidate Starts for Lolalove\_59:

(Start: 4 @56370 has 28 MA's), (6, 56343), (7, 56340), (10, 56301), (23, 56196), (24, 56169), (25, 56157), (27, 56139), (29, 56130),

Gene: Madraxi\_107 Start: 62702, Stop: 62415, Start Num: 9

Candidate Starts for Madraxi\_107:

(3, 62765), (Start: 9 @62702 has 1 MA's), (23, 62513),

Gene: Magpie\_57 Start: 56295, Stop: 56023, Start Num: 4

Candidate Starts for Magpie\_57:

(Start: 4 @56295 has 28 MA's), (6, 56268), (7, 56265), (10, 56226), (23, 56121), (24, 56094), (25, 56082), (27, 56064), (29, 56055),

Gene: Mithril\_58 Start: 56502, Stop: 56230, Start Num: 4

Candidate Starts for Mithril\_58:

(Start: 4 @56502 has 28 MA's), (6, 56475), (7, 56472), (10, 56433), (23, 56328), (24, 56301), (25, 56289), (27, 56271), (29, 56262),

Gene: Mudslide\_58 Start: 56635, Stop: 56363, Start Num: 4

Candidate Starts for Mudslide\_58:

(Start: 4 @56635 has 28 MA's), (6, 56608), (7, 56605), (10, 56566), (23, 56461), (24, 56434), (25, 56422), (27, 56404), (29, 56395), (32, 56380),

Gene: Nanao\_57 Start: 55329, Stop: 55057, Start Num: 4

Candidate Starts for Nanao\_57:

(Start: 4 @55329 has 28 MA's), (6, 55302), (7, 55299), (10, 55260), (23, 55155), (24, 55128), (25, 55116), (27, 55098), (29, 55089),

Gene: Nigel\_58 Start: 55443, Stop: 55117, Start Num: 4

Candidate Starts for Nigel\_58:

(Start: 4 @55443 has 28 MA's), (6, 55416), (10, 55374), (14, 55317), (21, 55272), (25, 55182), (28, 55158),

Gene: Poster\_57 Start: 55330, Stop: 55058, Start Num: 4

Candidate Starts for Poster\_57:

(Start: 4 @55330 has 28 MA's), (6, 55303), (7, 55300), (10, 55261), (23, 55156), (24, 55129), (25, 55117), (27, 55099), (29, 55090),

Gene: Prince\_58 Start: 56548, Stop: 56276, Start Num: 4

Candidate Starts for Prince\_58:

(Start: 4 @56548 has 28 MA's), (6, 56521), (7, 56518), (10, 56479), (23, 56374), (24, 56347), (25, 56335), (27, 56317), (29, 56308), (32, 56293),

Gene: QueenPie\_56 Start: 56063, Stop: 55791, Start Num: 4

Candidate Starts for QueenPie\_56:

(Start: 4 @56063 has 28 MA's), (6, 56036), (10, 55994), (23, 55889), (24, 55862), (25, 55850), (27, 55832), (29, 55823),

Gene: Quesadilla\_63 Start: 56737, Stop: 56441, Start Num: 5

Candidate Starts for Quesadilla\_63:

(Start: 5 @56737 has 1 MA's), (25, 56509), (33, 56458), (36, 56449),

Gene: RawrgerThat\_59 Start: 56388, Stop: 56116, Start Num: 4

Candidate Starts for RawrgerThat\_59:

(Start: 4 @56388 has 28 MA's), (6, 56361), (7, 56358), (10, 56319), (23, 56214), (24, 56187), (25, 56175), (27, 56157), (29, 56148),

Gene: Renkei\_57 Start: 55343, Stop: 55071, Start Num: 4

Candidate Starts for Renkei\_57:

(Start: 4 @55343 has 28 MA's), (6, 55316), (7, 55313), (10, 55274), (23, 55169), (24, 55142), (25, 55130), (27, 55112),

Gene: SFuller\_105 Start: 61412, Stop: 61119, Start Num: 9

Candidate Starts for SFuller\_105:

(Start: 9 @61412 has 1 MA's), (23, 61232), (34, 61136),

Gene: Stinger\_59 Start: 55258, Stop: 54989, Start Num: 4

Candidate Starts for Stinger\_59:

(Start: 4 @55258 has 28 MA's), (6, 55231), (10, 55189), (15, 55144), (22, 55099), (23, 55075), (24, 55048), (25, 55036), (30, 55003),

Gene: Vincenzo\_61 Start: 57535, Stop: 57200, Start Num: 4

Candidate Starts for Vincenzo\_61:

(Start: 4 @57535 has 28 MA's), (6, 57508), (10, 57466), (13, 57421), (17, 57391), (20, 57367), (21, 57364), (29, 57247), (33, 57220),

Gene: VioletZ\_60 Start: 56461, Stop: 56189, Start Num: 4

Candidate Starts for VioletZ\_60:

(Start: 4 @56461 has 28 MA's), (6, 56434), (7, 56431), (10, 56392), (23, 56287), (24, 56260), (25, 56248), (27, 56230), (29, 56221),

Gene: Waleliano\_58 Start: 56402, Stop: 56130, Start Num: 4

Candidate Starts for Waleliano\_58:

(Start: 4 @56402 has 28 MA's), (6, 56375), (7, 56372), (10, 56333), (23, 56228), (24, 56201), (25, 56189), (27, 56171), (29, 56162),

Gene: Xincheng\_59 Start: 57567, Stop: 57295, Start Num: 4

Candidate Starts for Xincheng\_59:

(Start: 4 @57567 has 28 MA's), (6, 57540), (10, 57498), (23, 57393), (24, 57366), (25, 57354), (29, 57327),

Gene: Zemanar\_59 Start: 56234, Stop: 55962, Start Num: 4

Candidate Starts for Zemanar\_59:

(Start: 4 @56234 has 28 MA's), (6, 56207), (7, 56204), (10, 56165), (23, 56060), (24, 56033), (25, 56021), (27, 56003), (29, 55994),