

Pham 312006



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 312006 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312006 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Rima\_76, Namu\_77, IceWarrior\_75
- Track 2 : DrGrey\_69, Soshi\_72, FrodoSwaggins\_71, Espio\_71, Popy\_71
- Track 3 : HazuAndZazu\_71
- Track 4 : GirlPower\_68
- Track 5 : LibertyBell\_63
- Track 6 : Rainydai\_62, CricKo\_64, Thiqqums\_64
- Track 7 : Bing\_75
- Track 8 : Bing\_78
- Track 9 : Wigberry\_77
- Track 10 : Wigberry\_76
- Track 11 : Wigberry\_79
- Track 12 : Kardashian\_72
- Track 13 : Kardashian\_75
- Track 14 : ClubPenguin\_78

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

The start number called the most often in the published annotations is 9, it was called in 11 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DrGrey\_69, Espio\_71, FrodoSwaggins\_71, GirlPower\_68, HazuAndZazu\_71, IceWarrior\_75, Namu\_77, Popy\_71, Rima\_76, Soshi\_72, Wigberry\_77,

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:

- Bing\_75, Bing\_78, ClubPenguin\_78, CricKo\_64, Kardashian\_72, Kardashian\_75, LibertyBell\_63, Rainydai\_62, Thiqqums\_64, Wigberry\_76, Wigberry\_79,

### **Summary by start number:**

Start 3:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kardashian\_72 (BI6),

Start 4:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClubPenguin\_78 (BI7),

Start 5:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kardashian\_75 (BI6),

Start 6:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bing\_75 (BI5), Wigberry\_76 (BI5),

Start 7:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LibertyBell\_63 (BI3),

Start 8:

- Found in 3 of 22 ( 13.6% ) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CricKo\_64 (BI4), Rainydai\_62 (BI4), Thiqqums\_64 (BI4),

Start 9:

- Found in 11 of 22 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 11 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrGrey\_69 (BI1), Espio\_71 (BI1), FrodoSwaggins\_71 (BI1), GirlPower\_68 (BI1), HazuAndZazu\_71 (BI1), IceWarrior\_75 (BI1), Namo\_77 (BI1), Popy\_71 (BI1), Rima\_76 (BI1), Soshi\_72 (BI1), Wigberry\_77 (BI5),

Start 34:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bing\_78 (BI5), Wigberry\_79 (BI5),

**Summary by clusters:**

There are 6 clusters represented in this pham: BI6, BI7, BI4, BI5, BI3, BI1,

Info for manual annotations of cluster BI1:

- Start number 9 was manually annotated 10 times for cluster BI1.

Info for manual annotations of cluster BI3:

- Start number 7 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 8 was manually annotated 3 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 6 was manually annotated 2 times for cluster BI5.
- Start number 9 was manually annotated 1 time for cluster BI5.
- Start number 34 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 3 was manually annotated 1 time for cluster BI6.
- Start number 5 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 4 was manually annotated 1 time for cluster BI7.

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

Gene: Bing\_75 Start: 46505, Stop: 46933, Start Num: 6

Candidate Starts for Bing\_75:

(Start: 6 @46505 has 2 MA's), (29, 46673), (32, 46709), (45, 46826), (46, 46829), (55, 46883),

Gene: Bing\_78 Start: 47851, Stop: 48282, Start Num: 34

Candidate Starts for Bing\_78:

(11, 47638), (18, 47707), (Start: 34 @47851 has 2 MA's), (39, 47905), (40, 47911), (43, 47920), (53, 47953), (60, 48037), (61, 48166), (63, 48187), (64, 48196), (66, 48238), (67, 48262), (68, 48265),

Gene: ClubPenguin\_78 Start: 46389, Stop: 46793, Start Num: 4

Candidate Starts for ClubPenguin\_78:

(Start: 4 @46389 has 1 MA's), (14, 46461), (19, 46494), (20, 46497), (22, 46509), (37, 46644), (40, 46668), (59, 46785), (60, 46788),

Gene: CricKo\_64 Start: 42071, Stop: 42442, Start Num: 8

Candidate Starts for CricKo\_64:

(Start: 8 @42071 has 3 MA's), (24, 42203), (25, 42206), (27, 42218), (36, 42353), (38, 42365), (42, 42389),

Gene: DrGrey\_69 Start: 46443, Stop: 46874, Start Num: 9

Candidate Starts for DrGrey\_69:

(Start: 9 @46443 has 11 MA's), (12, 46470), (13, 46482), (17, 46533), (26, 46584), (30, 46614), (35, 46707), (39, 46743), (40, 46749), (48, 46773), (52, 46785),

Gene: Espio\_71 Start: 46838, Stop: 47269, Start Num: 9

Candidate Starts for Espio\_71:

(Start: 9 @46838 has 11 MA's), (12, 46865), (13, 46877), (17, 46928), (26, 46979), (30, 47009), (35, 47102), (39, 47138), (40, 47144), (48, 47168), (52, 47180),

Gene: FrodoSwaggins\_71 Start: 46837, Stop: 47268, Start Num: 9

Candidate Starts for FrodoSwaggins\_71:

(Start: 9 @46837 has 11 MA's), (12, 46864), (13, 46876), (17, 46927), (26, 46978), (30, 47008), (35, 47101), (39, 47137), (40, 47143), (48, 47167), (52, 47179),

Gene: GirlPower\_68 Start: 46386, Stop: 46817, Start Num: 9

Candidate Starts for GirlPower\_68:

(Start: 9 @46386 has 11 MA's), (13, 46425), (26, 46527), (39, 46686), (40, 46692), (44, 46704), (48, 46716), (52, 46728),

Gene: HazuAndZazu\_71 Start: 46504, Stop: 46935, Start Num: 9

Candidate Starts for HazuAndZazu\_71:

(Start: 9 @46504 has 11 MA's), (12, 46531), (13, 46543), (17, 46594), (26, 46645), (30, 46675), (35, 46768), (39, 46804), (40, 46810), (48, 46834), (52, 46846),

Gene: IceWarrior\_75 Start: 46335, Stop: 46766, Start Num: 9

Candidate Starts for IceWarrior\_75:

(Start: 9 @46335 has 11 MA's), (12, 46362), (13, 46374), (17, 46425), (26, 46476), (35, 46599), (39, 46635), (40, 46641), (48, 46665), (52, 46677),

Gene: Kardashian\_72 Start: 46780, Stop: 47208, Start Num: 3

Candidate Starts for Kardashian\_72:

(Start: 3 @46780 has 1 MA's), (33, 47014), (49, 47113), (55, 47158),

Gene: Kardashian\_75 Start: 48276, Stop: 48716, Start Num: 5

Candidate Starts for Kardashian\_75:

(Start: 5 @48276 has 1 MA's), (14, 48357), (15, 48366), (28, 48441), (31, 48477), (41, 48588), (44, 48594), (47, 48603), (54, 48630),

Gene: LibertyBell\_63 Start: 41838, Stop: 42254, Start Num: 7

Candidate Starts for LibertyBell\_63:

(Start: 7 @41838 has 1 MA's), (10, 41859), (16, 41925), (21, 41955), (23, 41967), (24, 41973), (25, 41976), (50, 42165), (56, 42213), (57, 42219), (58, 42237),

Gene: Namo\_77 Start: 46997, Stop: 47428, Start Num: 9

Candidate Starts for Namo\_77:

(Start: 9 @46997 has 11 MA's), (12, 47024), (13, 47036), (17, 47087), (26, 47138), (35, 47261), (39, 47297), (40, 47303), (48, 47327), (52, 47339),

Gene: Popy\_71 Start: 46837, Stop: 47268, Start Num: 9

Candidate Starts for Popy\_71:

(Start: 9 @46837 has 11 MA's), (12, 46864), (13, 46876), (17, 46927), (26, 46978), (30, 47008), (35, 47101), (39, 47137), (40, 47143), (48, 47167), (52, 47179),

Gene: Rainydai\_62 Start: 42071, Stop: 42442, Start Num: 8

Candidate Starts for Rainydai\_62:

(Start: 8 @42071 has 3 MA's), (24, 42203), (25, 42206), (27, 42218), (36, 42353), (38, 42365), (42, 42389),

Gene: Rima\_76 Start: 46997, Stop: 47428, Start Num: 9

Candidate Starts for Rima\_76:

(Start: 9 @46997 has 11 MA's), (12, 47024), (13, 47036), (17, 47087), (26, 47138), (35, 47261), (39, 47297), (40, 47303), (48, 47327), (52, 47339),

Gene: Soshi\_72 Start: 46702, Stop: 47133, Start Num: 9

Candidate Starts for Soshi\_72:

(Start: 9 @46702 has 11 MA's), (12, 46729), (13, 46741), (17, 46792), (26, 46843), (30, 46873), (35, 46966), (39, 47002), (40, 47008), (48, 47032), (52, 47044),

Gene: Thiqqums\_64 Start: 42071, Stop: 42442, Start Num: 8

Candidate Starts for Thiqqums\_64:

(Start: 8 @42071 has 3 MA's), (24, 42203), (25, 42206), (27, 42218), (36, 42353), (38, 42365), (42, 42389),

Gene: Wigberry\_77 Start: 47020, Stop: 47457, Start Num: 9

Candidate Starts for Wigberry\_77:

(Start: 9 @47020 has 11 MA's), (48, 47356), (51, 47362), (54, 47380),

Gene: Wigberry\_76 Start: 46367, Stop: 46795, Start Num: 6

Candidate Starts for Wigberry\_76:

(1, 46268), (2, 46331), (Start: 6 @46367 has 2 MA's), (29, 46535), (32, 46571), (45, 46688), (55, 46745),

Gene: Wigberry\_79 Start: 47806, Stop: 48252, Start Num: 34

Candidate Starts for Wigberry\_79:

(11, 47593), (18, 47662), (Start: 34 @47806 has 2 MA's), (39, 47860), (43, 47875), (53, 47908), (60, 47992), (62, 48133), (63, 48142), (65, 48184), (66, 48208),