

Zoomed Pham 331308



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 331308 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331308 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Pepperoni_26
- Track 2 : Easley_28, WinkNick_28
- Track 3 : Adora_28
- Track 4 : Shlim410_28, Twinkle_28, Hortense_28, Mcklovin_28, Howe_28
- Track 5 : Samman98_28
- Track 6 : Invectra_28
- Track 7 : Sekhmet_28
- Track 8 : Bakery_36
- Track 9 : Malisha_33
- Track 10 : Spooky_30, Squiddly_32
- Track 11 : PhaoMing_25
- Track 12 : Gudmit_27

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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_28, Bakery_36, Easley_28, Gudmit_27, Hortense_28, Howe_28, Invectra_28, Malisha_33, Mcklovin_28, Pepperoni_26, PhaoMing_25, Samman98_28, Sekhmet_28, Shlim410_28, Spooky_30, Squiddly_32, Twinkle_28, WinkNick_28,

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

-

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

-

Summary by start number:

Start 5:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 17

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_28 (CZ4), Bakery_36 (DC1), Easley_28 (CZ4), Gudmit_27 (singleton), Hortense_28 (CZ4), Howe_28 (CZ4), Invecra_28 (CZ4), Malisha_33 (DN), Mcklovin_28 (CZ4), Pepperoni_26 (CZ), PhaoMing_25 (UNK), Samman98_28 (CZ4), Sekhmet_28 (CZ4), Shlim410_28 (CZ4), Spooky_30 (DN2), Squiddly_32 (DN2), Twinkle_28 (CZ4), WinkNick_28 (CZ4),

Summary by clusters:

There are 7 clusters represented in this pham: DN, singleton, CZ4, CZ, DN2, UNK, DC1,

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ4:

- Start number 5 was manually annotated 11 times for cluster CZ4.

Info for manual annotations of cluster DC1:

- Start number 5 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN2:

- Start number 5 was manually annotated 2 times for cluster DN2.

Gene Information:

Gene: Adora_28 Start: 23842, Stop: 24432, Start Num: 5

Candidate Starts for Adora_28:

(1, 23665), (2, 23746), (3, 23770), (Start: 5 @23842 has 17 MA's), (31, 24157), (38, 24238), (40, 24247),

Gene: Bakery_36 Start: 29604, Stop: 30119, Start Num: 5

Candidate Starts for Bakery_36:

(1, 29433), (3, 29538), (Start: 5 @29604 has 17 MA's), (6, 29625), (11, 29682), (13, 29697), (26, 29856), (35, 29940), (37, 29955), (43, 29997), (46, 30015), (48, 30021), (49, 30024), (50, 30045), (51, 30069), (52, 30105),

Gene: Easley_28 Start: 23290, Stop: 23787, Start Num: 5

Candidate Starts for Easley_28:

(1, 23113), (2, 23194), (3, 23218), (Start: 5 @23290 has 17 MA's), (9, 23365), (31, 23605), (40, 23692), (41, 23698), (42, 23719), (47, 23758),

Gene: Gudmit_27 Start: 21597, Stop: 22205, Start Num: 5

Candidate Starts for Gudmit_27:

(2, 21501), (3, 21525), (Start: 5 @21597 has 17 MA's), (10, 21678), (27, 21882), (29, 21906), (36, 21969), (44, 22044), (51, 22128), (54, 22176),

Gene: Hortense_28 Start: 23889, Stop: 24479, Start Num: 5

Candidate Starts for Hortense_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 5 @23889 has 17 MA's), (9, 23964), (31, 24204), (38, 24285), (40, 24294),

Gene: Howe_28 Start: 23889, Stop: 24479, Start Num: 5

Candidate Starts for Howe_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 5 @23889 has 17 MA's), (9, 23964), (31, 24204), (38, 24285), (40, 24294),

Gene: Invetra_28 Start: 23947, Stop: 24444, Start Num: 5

Candidate Starts for Invetra_28:

(3, 23878), (Start: 5 @23947 has 17 MA's), (9, 24022), (31, 24262), (40, 24349), (41, 24355), (42, 24376), (47, 24415),

Gene: Malisha_33 Start: 26102, Stop: 26644, Start Num: 5

Candidate Starts for Malisha_33:

(Start: 5 @26102 has 17 MA's), (17, 26240), (18, 26246), (19, 26258), (20, 26261), (21, 26264), (24, 26324), (26, 26360), (29, 26387), (30, 26396), (32, 26408), (33, 26420), (35, 26444), (37, 26471),

Gene: Mcklovin_28 Start: 26058, Stop: 26648, Start Num: 5

Candidate Starts for Mcklovin_28:

(1, 25881), (2, 25962), (3, 25986), (Start: 5 @26058 has 17 MA's), (9, 26133), (31, 26373), (38, 26454), (40, 26463),

Gene: Pepperoni_26 Start: 21851, Stop: 22447, Start Num: 5

Candidate Starts for Pepperoni_26:

(Start: 5 @21851 has 17 MA's), (12, 21941), (25, 22112), (28, 22142), (29, 22160), (30, 22169), (39, 22259), (55, 22436),

Gene: PhaoMing_25 Start: 23308, Stop: 23850, Start Num: 5

Candidate Starts for PhaoMing_25:

(4, 23305), (Start: 5 @23308 has 17 MA's), (6, 23329), (7, 23356), (8, 23359), (14, 23407), (15, 23425), (16, 23434), (18, 23452), (19, 23464), (20, 23467), (21, 23470), (22, 23491), (23, 23518), (24, 23530), (26, 23566), (29, 23593), (34, 23638), (37, 23680), (45, 23728), (53, 23839),

Gene: Samman98_28 Start: 23298, Stop: 23804, Start Num: 5

Candidate Starts for Samman98_28:

(1, 23121), (2, 23202), (3, 23226), (Start: 5 @23298 has 17 MA's), (9, 23373), (31, 23613),

Gene: Sekhmet_28 Start: 23658, Stop: 24155, Start Num: 5

Candidate Starts for Sekhmet_28:

(1, 23481), (2, 23562), (3, 23586), (Start: 5 @23658 has 17 MA's), (40, 24060), (41, 24066), (42, 24087), (47, 24126),

Gene: Shlim410_28 Start: 23889, Stop: 24479, Start Num: 5

Candidate Starts for Shlim410_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 5 @23889 has 17 MA's), (9, 23964), (31, 24204), (38, 24285), (40, 24294),

Gene: Spooky_30 Start: 24102, Stop: 24590, Start Num: 5

Candidate Starts for Spooky_30:

(4, 24099), (Start: 5 @24102 has 17 MA's), (17, 24240), (18, 24246), (20, 24261), (21, 24264), (24, 24324), (26, 24360), (29, 24387), (32, 24408), (33, 24420), (37, 24459),

Gene: Squiddly_32 Start: 25514, Stop: 26002, Start Num: 5

Candidate Starts for Squiddly_32:

(4, 25511), (Start: 5 @25514 has 17 MA's), (17, 25652), (18, 25658), (20, 25673), (21, 25676), (24, 25736), (26, 25772), (29, 25799), (32, 25820), (33, 25832), (37, 25871),

Gene: Twinkle_28 Start: 24948, Stop: 25538, Start Num: 5

Candidate Starts for Twinkle_28:

(1, 24771), (2, 24852), (3, 24876), (Start: 5 @24948 has 17 MA's), (9, 25023), (31, 25263), (38, 25344), (40, 25353),

Gene: WinkNick_28 Start: 23280, Stop: 23777, Start Num: 5

Candidate Starts for WinkNick_28:

(1, 23103), (2, 23184), (3, 23208), (Start: 5 @23280 has 17 MA's), (9, 23355), (31, 23595), (40, 23682), (41, 23688), (42, 23709), (47, 23748),