

Pham 291506



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 291506 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291506 has 23 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Shukran_72
- Track 2 : Phrank15_79
- Track 3 : Jada_236
- Track 4 : DeluluLabubu_239
- Track 5 : Forrest_237
- Track 6 : Malisha_29
- Track 7 : DocMcStuffins_23, Aloeri_23, Piper2020_23
- Track 8 : BlackSpider_64
- Track 9 : Superphikiman_113, Courthouse_111, Squint_114, Ariel_116
- Track 10 : MiaZeal_128, Nibley_125, Gonephishing_122, Nekros_131, Shaboozey_129, Squint_126
- Track 11 : MiaZeal_116
- Track 12 : Rearden_126
- Track 13 : REQ3_23

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

The start number called the most often in the published annotations is 25, it was called in 5 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_116, Courthouse_111, MiaZeal_116, Squint_114, Superphikiman_113,

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:

- Aloeri_23, BlackSpider_64, DeluluLabubu_239, DocMcStuffins_23, Forrest_237, Gonephishing_122, Jada_236, Malisha_29, MiaZeal_128, Nekros_131, Nibley_125, Phrank15_79, Piper2020_23, REQ3_23, Rearden_126, Shaboozey_129, Shukran_72, Squint_126,

Summary by start number:

Start 9:

- Found in 4 of 23 (17.4%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Aloeri_23 (F1), DocMcStuffins_23 (F1), Piper2020_23 (F1),

Start 11:

- Found in 1 of 23 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ3_23 (singleton),

Start 15:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BlackSpider_64 (FN), Phrank15_79 (AY),

Start 16:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malisha_29 (DN),

Start 17:

- Found in 8 of 23 (34.8%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Gonephishing_122 (J), MiaZeal_128 (J), Nekros_131 (J), Nibley_125 (J), Shaboozey_129 (J), Shukran_72 (AY), Squint_126 (J),

Start 23:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Forrest_237 (BK1),

Start 25:

- Found in 5 of 23 (21.7%) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_116 (J), Courthouse_111 (J), MiaZeal_116 (J), Squint_114 (J), Superphikiman_113 (J),

Start 29:

- Found in 7 of 23 (30.4%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Rearden_126 (J),

Start 30:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: DeluluLabubu_239 (BK1), Jada_236 (BK1),

Summary by clusters:

There are 7 clusters represented in this pham: DN, F1, singleton, J, BK1, AY, FN,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster BK1:

- Start number 23 was manually annotated 1 time for cluster BK1.
- Start number 30 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster DN:

- Start number 16 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster FN:

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

Info for manual annotations of cluster J:

- Start number 17 was manually annotated 2 times for cluster J.
- Start number 25 was manually annotated 5 times for cluster J.

Gene Information:

Gene: Aloeri_23 Start: 23233, Stop: 23961, Start Num: 9

Candidate Starts for Aloeri_23:

(Start: 9 @23233 has 3 MA's), (13, 23332), (14, 23353), (45, 23656), (63, 23767), (73, 23905),

Gene: Ariel_116 Start: 62922, Stop: 63554, Start Num: 25

Candidate Starts for Ariel_116:

(12, 62799), (20, 62862), (21, 62877), (Start: 25 @62922 has 5 MA's), (34, 62973), (40, 63084), (55, 63213), (59, 63243), (61, 63255), (67, 63303), (68, 63306),

Gene: BlackSpider_64 Start: 38978, Stop: 39544, Start Num: 15

Candidate Starts for BlackSpider_64:

(Start: 15 @38978 has 2 MA's), (41, 39260), (53, 39329), (57, 39356), (59, 39368), (70, 39485),

Gene: Courthouse_111 Start: 62522, Stop: 63154, Start Num: 25

Candidate Starts for Courthouse_111:

(12, 62399), (20, 62462), (21, 62477), (Start: 25 @62522 has 5 MA's), (34, 62573), (40, 62684), (55, 62813), (59, 62843), (61, 62855), (67, 62903), (68, 62906),

Gene: DeluluLabubu_239 Start: 114433, Stop: 114876, Start Num: 30
Candidate Starts for DeluluLabubu_239:
(27, 114415), (Start: 30 @114433 has 2 MA's), (53, 114667), (59, 114706),

Gene: DocMcStuffins_23 Start: 23233, Stop: 23961, Start Num: 9
Candidate Starts for DocMcStuffins_23:
(Start: 9 @23233 has 3 MA's), (13, 23332), (14, 23353), (45, 23656), (63, 23767), (73, 23905),

Gene: Forrest_237 Start: 114096, Stop: 114590, Start Num: 23
Candidate Starts for Forrest_237:
(Start: 23 @114096 has 1 MA's), (26, 114117), (Start: 30 @114144 has 2 MA's), (39, 114231), (42, 114303), (53, 114378), (74, 114585),

Gene: Gonephishing_122 Start: 66828, Stop: 67358, Start Num: 17
Candidate Starts for Gonephishing_122:
(Start: 17 @66828 has 2 MA's), (29, 66921), (31, 66930), (32, 66942), (37, 66981), (38, 67014), (43, 67089), (48, 67116), (49, 67128), (52, 67146), (53, 67152), (65, 67230),

Gene: Jada_236 Start: 113382, Stop: 113834, Start Num: 30
Candidate Starts for Jada_236:
(Start: 23 @113334 has 1 MA's), (26, 113355), (Start: 30 @113382 has 2 MA's), (53, 113616),

Gene: Malisha_29 Start: 23381, Stop: 24040, Start Num: 16
Candidate Starts for Malisha_29:
(1, 23009), (2, 23066), (4, 23111), (6, 23165), (7, 23168), (8, 23204), (Start: 9 @23249 has 3 MA's), (10, 23252), (Start: 16 @23381 has 1 MA's), (18, 23390), (21, 23417), (22, 23432), (28, 23480), (32, 23507), (33, 23516), (36, 23555), (51, 23750), (53, 23762), (58, 23795), (60, 23804), (64, 23849), (69, 23885), (71, 23954), (75, 23981),

Gene: MiaZeal_128 Start: 68487, Stop: 69017, Start Num: 17
Candidate Starts for MiaZeal_128:
(Start: 17 @68487 has 2 MA's), (29, 68580), (31, 68589), (32, 68601), (37, 68640), (38, 68673), (43, 68748), (48, 68775), (49, 68787), (52, 68805), (53, 68811), (65, 68889),

Gene: MiaZeal_116 Start: 63594, Stop: 64151, Start Num: 25
Candidate Starts for MiaZeal_116:
(20, 63534), (21, 63549), (Start: 25 @63594 has 5 MA's), (34, 63645), (40, 63756), (55, 63885), (59, 63915), (61, 63927), (67, 63975), (68, 63978),

Gene: Nekros_131 Start: 71983, Stop: 72513, Start Num: 17
Candidate Starts for Nekros_131:
(Start: 17 @71983 has 2 MA's), (29, 72076), (31, 72085), (32, 72097), (37, 72136), (38, 72169), (43, 72244), (48, 72271), (49, 72283), (52, 72301), (53, 72307), (65, 72385),

Gene: Nibley_125 Start: 68366, Stop: 68896, Start Num: 17
Candidate Starts for Nibley_125:
(Start: 17 @68366 has 2 MA's), (29, 68459), (31, 68468), (32, 68480), (37, 68519), (38, 68552), (43, 68627), (48, 68654), (49, 68666), (52, 68684), (53, 68690), (65, 68768),

Gene: Phrank15_79 Start: 42147, Stop: 42713, Start Num: 15
Candidate Starts for Phrank15_79:
(Start: 15 @42147 has 2 MA's), (41, 42429), (53, 42498), (57, 42525), (59, 42537), (70, 42654),

Gene: Piper2020_23 Start: 23232, Stop: 23960, Start Num: 9

Candidate Starts for Piper2020_23:

(Start: 9 @23232 has 3 MA's), (13, 23331), (14, 23352), (45, 23655), (63, 23766), (73, 23904),

Gene: REQ3_23 Start: 10266, Stop: 11021, Start Num: 11

Candidate Starts for REQ3_23:

(11, 10266), (Start: 15 @10365 has 2 MA's), (19, 10380), (24, 10443), (44, 10668), (46, 10671), (47, 10683), (55, 10728), (56, 10746), (62, 10791), (66, 10836), (72, 10932), (76, 10974), (77, 10995), (78, 11001),

Gene: Rearden_126 Start: 68479, Stop: 68916, Start Num: 29

Candidate Starts for Rearden_126:

(Start: 17 @68386 has 2 MA's), (29, 68479), (31, 68488), (32, 68500), (37, 68539), (38, 68572), (43, 68647), (48, 68674), (49, 68686), (52, 68704), (53, 68710), (65, 68788),

Gene: Shaboozey_129 Start: 68810, Stop: 69340, Start Num: 17

Candidate Starts for Shaboozey_129:

(Start: 17 @68810 has 2 MA's), (29, 68903), (31, 68912), (32, 68924), (37, 68963), (38, 68996), (43, 69071), (48, 69098), (49, 69110), (52, 69128), (53, 69134), (65, 69212),

Gene: Shukran_72 Start: 40696, Stop: 41226, Start Num: 17

Candidate Starts for Shukran_72:

(3, 40381), (5, 40450), (Start: 17 @40696 has 2 MA's), (35, 40843), (45, 40987), (50, 41017), (54, 41035), (57, 41059), (70, 41188),

Gene: Squint_114 Start: 63713, Stop: 64345, Start Num: 25

Candidate Starts for Squint_114:

(12, 63590), (20, 63653), (21, 63668), (Start: 25 @63713 has 5 MA's), (34, 63764), (40, 63875), (55, 64004), (59, 64034), (61, 64046), (67, 64094), (68, 64097),

Gene: Squint_126 Start: 68600, Stop: 69130, Start Num: 17

Candidate Starts for Squint_126:

(Start: 17 @68600 has 2 MA's), (29, 68693), (31, 68702), (32, 68714), (37, 68753), (38, 68786), (43, 68861), (48, 68888), (49, 68900), (52, 68918), (53, 68924), (65, 69002),

Gene: Superphikiman_113 Start: 62804, Stop: 63436, Start Num: 25

Candidate Starts for Superphikiman_113:

(12, 62681), (20, 62744), (21, 62759), (Start: 25 @62804 has 5 MA's), (34, 62855), (40, 62966), (55, 63095), (59, 63125), (61, 63137), (67, 63185), (68, 63188),