# Pham 282366

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 282366 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282366 has 31 members, 4 are drafts.

Phages represented in each track:
• Track 1 : SparkleGoddess_162, Karp_157, Westy_165, Belfort_163, Comrade_160, Stigma_161
• Track 2 : Kenrey_170, Phredrick_167
• Track 3 : TunaTartare_163
• Track 4 : Emma1919_168, Maupel_168, MeganTheeKilla_165, Forrest_169
• Track 5 : Jada_166, DeluluLabubu_172
• Track 6 : Patelgo_165, Moab_163
• Track 7 : Sham_157
• Track 8 : Faust_155, SeresaTree_157
• Track 9 : Francob_166
• Track 10 : Beuffert_156, Blueeyedbeauty_159
• Track 11 : Gilson_167
• Track 12 : Annadreamy_150, Limpid_157
• Track 13 : Muntaha_135, Wakanda_134
• Track 14 : BillNye_127
• Track 15 : Circinus_128
• Track 16 : Chaewon_131


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

The start number called the most often in the published annotations is 10, it was called in 26 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_150, Belfort_163, Beuffert_156, BillNye_127, Blueeyedbeauty_159, Circinus_128, Comrade_160, DeluluLabubu_172, Emma1919_168, Faust_155, Forrest_169, Francob_166, Jada_166, Karp_157, Kenrey_170, Limpid_157, Maupel_168, MeganTheeKilla_165, Moab_163, Muntaha_135, Patelgo_165, Phredrick_167, SeresaTree_157, Sham_157, SparkleGoddess_162, Stigma_161, TunaTartare_163, Wakanda_134, Westy_165,

Genes that have the "Most Annotated" start but do not call it:
• Chaewon_131, Gilson_167,

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

**Summary by start number:**

Start 10:
• Found in 31 of 31 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 26 of 27
• Called 93.5% of time when present
• Phage (with cluster) where this start called: Annadreamy_150 (BK1), Belfort_163 (BK1), Beuffert_156 (BK1), BillNye_127 (BK2), Blueeyedbeauty_159 (BK1), Circinus_128 (BK2), Comrade_160 (BK1), DeluluLabubu_172 (BK1), Emma1919_168 (BK1), Faust_155 (BK1), Forrest_169 (BK1), Francob_166 (BK1), Jada_166 (BK1), Karp_157 (BK1), Kenrey_170 (BK1), Limpid_157 (BK1), Maupel_168 (BK1), MeganTheeKilla_165 (BK1), Moab_163 (BK1), Muntaha_135 (BK2), Patelgo_165 (BK1), Phredrick_167 (BK1), SeresaTree_157 (BK1), Sham_157 (BK1), SparkleGoddess_162 (BK1), Stigma_161 (BK1), TunaTartare_163 (BK1), Wakanda_134 (BK2), Westy_165 (BK1),

Start 13:
• Found in 12 of 31 ( 38.7% ) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Chaewon_131 (BK2), Gilson_167 (BK1),

**Summary by clusters:**

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 10 was manually annotated 22 times for cluster BK1.
•Start number 13 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 10 was manually annotated 4 times for cluster BK2.

*Gene Information:*
Gene: Annadreamy_150 Start: 81654, Stop: 81887, Start Num: 10
Candidate Starts for Annadreamy_150:
(Start: 10 @81654 has 26 MA's), (12, 81675), (14, 81690), (18, 81780), (21, 81801), (22, 81807), (29, 81861), (30, 81870),

Gene: Belfort_163 Start: 87583, Stop: 87810, Start Num: 10
Candidate Starts for Belfort_163:
(7, 87574), (8, 87577), (Start: 10 @87583 has 26 MA's), (19, 87709), (23, 87730), (24, 87736),

Gene: Beuffert_156 Start: 86190, Stop: 86423, Start Num: 10
Candidate Starts for Beuffert_156:
(Start: 10 @86190 has 26 MA's), (12, 86211), (14, 86226), (18, 86316), (22, 86343), (29, 86397), (30, 86406),

Gene: BillNye_127 Start: 77750, Stop: 77983, Start Num: 10
Candidate Starts for BillNye_127:
(Start: 10 @77750 has 26 MA's), (12, 77771), (14, 77786), (25, 77915),

Gene: Blueeyedbeauty_159 Start: 86076, Stop: 86306, Start Num: 10
Candidate Starts for Blueeyedbeauty_159:
(Start: 10 @86076 has 26 MA's), (12, 86097), (14, 86112), (18, 86202), (22, 86229), (29, 86280), (30, 86289),

Gene: Chaewon_131 Start: 77712, Stop: 77915, Start Num: 13
Candidate Starts for Chaewon_131:
(Start: 10 @77682 has 26 MA's), (12, 77703), (Start: 13 @77712 has 1 MA's), (21, 77829), (26, 77850),

Gene: Circinus_128 Start: 77718, Stop: 77951, Start Num: 10
Candidate Starts for Circinus_128:
(9, 77715), (Start: 10 @77718 has 26 MA's), (12, 77739), (15, 77775), (29, 77925),

Gene: Comrade_160 Start: 87785, Stop: 88012, Start Num: 10
Candidate Starts for Comrade_160:
(7, 87776), (8, 87779), (Start: 10 @87785 has 26 MA's), (19, 87911), (23, 87932), (24, 87938),

Gene: DeluluLabubu_172 Start: 89093, Stop: 89326, Start Num: 10
Candidate Starts for DeluluLabubu_172:
(8, 89087), (9, 89090), (Start: 10 @89093 has 26 MA's), (12, 89114), (Start: 13 @89123 has 1 MA's), (18, 89219), (27, 89273),

Gene: Emma1919_168 Start: 87152, Stop: 87385, Start Num: 10
Candidate Starts for Emma1919_168:
(8, 87146), (9, 87149), (Start: 10 @87152 has 26 MA's), (12, 87173), (Start: 13 @87182 has 1 MA's), (27, 87332),

Gene: Faust_155 Start: 86768, Stop: 87001, Start Num: 10
Candidate Starts for Faust_155:
(6, 86753), (Start: 10 @86768 has 26 MA's), (11, 86777), (12, 86789), (Start: 13 @86798 has 1 MA's), (21, 86915), (29, 86975),

Gene: Forrest_169 Start: 88135, Stop: 88368, Start Num: 10
Candidate Starts for Forrest_169:
(8, 88129), (9, 88132), (Start: 10 @88135 has 26 MA's), (12, 88156), (Start: 13 @88165 has 1 MA's), (27, 88315),

Gene: Francob_166 Start: 87657, Stop: 87890, Start Num: 10
Candidate Starts for Francob_166:
(8, 87651), (9, 87654), (Start: 10 @87657 has 26 MA's), (12, 87678), (27, 87837),

Gene: Gilson_167 Start: 87144, Stop: 87347, Start Num: 13
Candidate Starts for Gilson_167:
(8, 87108), (9, 87111), (Start: 10 @87114 has 26 MA's), (12, 87135), (Start: 13 @87144 has 1 MA's), (27, 87294),

Gene: Jada_166 Start: 86831, Stop: 87064, Start Num: 10
Candidate Starts for Jada_166:

(8, 86825), (9, 86828), (Start: 10 @86831 has 26 MA's), (12, 86852), (Start: 13 @86861 has 1 MA's), (18, 86957), (27, 87011),

Gene: Karp_157 Start: 87009, Stop: 87236, Start Num: 10
Candidate Starts for Karp_157:
(7, 87000), (8, 87003), (Start: 10 @87009 has 26 MA's), (19, 87135), (23, 87156), (24, 87162),

Gene: Kenrey_170 Start: 88284, Stop: 88517, Start Num: 10
Candidate Starts for Kenrey_170:
(Start: 10 @88284 has 26 MA's), (12, 88305), (Start: 13 @88314 has 1 MA's), (15, 88341), (27, 88464),

Gene: Limpid_157 Start: 86967, Stop: 87200, Start Num: 10
Candidate Starts for Limpid_157:
(Start: 10 @86967 has 26 MA's), (12, 86988), (14, 87003), (18, 87093), (21, 87114), (22, 87120), (29, 87174), (30, 87183),

Gene: Maupel_168 Start: 87114, Stop: 87347, Start Num: 10
Candidate Starts for Maupel_168:
(8, 87108), (9, 87111), (Start: 10 @87114 has 26 MA's), (12, 87135), (Start: 13 @87144 has 1 MA's), (27, 87294),

Gene: MeganTheeKilla_165 Start: 86738, Stop: 86971, Start Num: 10
Candidate Starts for MeganTheeKilla_165:
(8, 86732), (9, 86735), (Start: 10 @86738 has 26 MA's), (12, 86759), (Start: 13 @86768 has 1 MA's), (27, 86918),

Gene: Moab_163 Start: 88781, Stop: 89014, Start Num: 10
Candidate Starts for Moab_163:
(1, 88736), (4, 88760), (5, 88763), (Start: 10 @88781 has 26 MA's), (12, 88802), (15, 88838), (16, 88865), (18, 88907), (27, 88961), (28, 88976),

Gene: Muntaha_135 Start: 76653, Stop: 76886, Start Num: 10
Candidate Starts for Muntaha_135:
(6, 76638), (Start: 10 @76653 has 26 MA's), (12, 76674), (29, 76860),

Gene: Patelgo_165 Start: 89473, Stop: 89706, Start Num: 10
Candidate Starts for Patelgo_165:
(1, 89428), (4, 89452), (5, 89455), (Start: 10 @89473 has 26 MA's), (12, 89494), (15, 89530), (16, 89557), (18, 89599), (27, 89653), (28, 89668),

Gene: Phredrick_167 Start: 86627, Stop: 86860, Start Num: 10
Candidate Starts for Phredrick_167:
(Start: 10 @86627 has 26 MA's), (12, 86648), (Start: 13 @86657 has 1 MA's), (15, 86684), (27, 86807),

Gene: SeresaTree_157 Start: 86150, Stop: 86383, Start Num: 10
Candidate Starts for SeresaTree_157:
(6, 86135), (Start: 10 @86150 has 26 MA's), (11, 86159), (12, 86171), (Start: 13 @86180 has 1 MA's), (21, 86297), (29, 86357),

Gene: Sham_157 Start: 88619, Stop: 88852, Start Num: 10
Candidate Starts for Sham_157:
(2, 88577), (3, 88589), (6, 88604), (Start: 10 @88619 has 26 MA's), (17, 88727), (18, 88745), (20, 88760), (26, 88787), (29, 88826), (30, 88835),

Gene: SparkleGoddess_162 Start: 87796, Stop: 88023, Start Num: 10
Candidate Starts for SparkleGoddess_162:
(7, 87787), (8, 87790), (Start: 10 @87796 has 26 MA's), (19, 87922), (23, 87943), (24, 87949),

Gene: Stigma_161 Start: 88230, Stop: 88457, Start Num: 10
Candidate Starts for Stigma_161:
(7, 88221), (8, 88224), (Start: 10 @88230 has 26 MA's), (19, 88356), (23, 88377), (24, 88383),

Gene: TunaTartare_163 Start: 89865, Stop: 90098, Start Num: 10
Candidate Starts for TunaTartare_163:
(2, 89823), (3, 89835), (6, 89850), (Start: 10 @89865 has 26 MA's), (17, 89973), (18, 89991), (26, 90033), (29, 90072), (30, 90081),

Gene: Wakanda_134 Start: 76595, Stop: 76828, Start Num: 10
Candidate Starts for Wakanda_134:
(6, 76580), (Start: 10 @76595 has 26 MA's), (12, 76616), (29, 76802),

Gene: Westy_165 Start: 88545, Stop: 88772, Start Num: 10
Candidate Starts for Westy_165:
(7, 88536), (8, 88539), (Start: 10 @88545 has 26 MA's), (19, 88671), (23, 88692), (24, 88698),