

Pham 289693



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 289693 Report

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

Pham number 289693 has 26 members, 5 are drafts.

Phages represented in each track:

- Track 1 : PFR1\_48, PFR2\_50
- Track 2 : WilliamBoone\_105
- Track 3 : Gsput1\_45
- Track 4 : Taotie\_126
- Track 5 : PSonyx\_124
- Track 6 : MicyPS\_105
- Track 7 : Ruby\_68, MisterCuddles\_70, Girr\_70, Stap\_68, Krakatau\_68
- Track 8 : ByChance\_67, Mova\_73, ShowerHandel\_77, Alexphander\_75, Madiba\_77
- Track 9 : ArcusAngelus\_78, Chevrolet\_80
- Track 10 : Topiatin\_78
- Track 11 : Renaud18\_83
- Track 12 : Pitbull\_55
- Track 13 : Hum25\_57
- Track 14 : Altostratus\_58
- Track 15 : Phayonce\_66
- Track 16 : MooMoo\_67

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

The start number called the most often in the published annotations is 8, it was called in 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander\_75, ArcusAngelus\_78, ByChance\_67, Chevrolet\_80, Girr\_70, Krakatau\_68, Madiba\_77, MisterCuddles\_70, MooMoo\_67, Mova\_73, PFR1\_48, PFR2\_50, Phayonce\_66, Renaud18\_83, Ruby\_68, ShowerHandel\_77, Stap\_68, Topiatin\_78, WilliamBoone\_105,

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

- Gsput1\_45,

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

- Altostratus\_58, Hum25\_57, MicyPS\_105, PSonyx\_124, Pitbull\_55, Taotie\_126,

## Summary by start number:

### Start 7:

- Found in 3 of 26 ( 11.5% ) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MicyPS\_105 (EQ), PSonyx\_124 (EQ), Taotie\_126 (EQ),

### Start 8:

- Found in 20 of 26 ( 76.9% ) of genes in pham
- Manual Annotations of this start: 16 of 21
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Alexphander\_75 (F1), ArcusAngelus\_78 (F1), ByChance\_67 (F1), Chevrolet\_80 (F1), Girr\_70 (F1), Krakatau\_68 (F1), Madiba\_77 (F1), MisterCuddles\_70 (F1), MooMoo\_67 (singleton), Mova\_73 (F1), PFR1\_48 (BX), PFR2\_50 (BX), Phayonce\_66 (P5), Renaud18\_83 (F4), Ruby\_68 (F1), ShowerHandel\_77 (F1), Stap\_68 (F1), Topiatin\_78 (F1), WilliamBoone\_105 (CQ1),

### Start 10:

- Found in 1 of 26 ( 3.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gspu1\_45 (CU2),

### Start 19:

- Found in 2 of 26 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25\_57 (FQ), Pitbull\_55 (FQ),

### Start 20:

- Found in 1 of 26 ( 3.8% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus\_58 (FS),

## Summary by clusters:

There are 10 clusters represented in this pham: F1, singleton, FS, F4, CU2, FQ, BX, P5, CQ1, EQ,

### Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 1 time for cluster CQ1.

### Info for manual annotations of cluster EQ:

- Start number 7 was manually annotated 2 times for cluster EQ.

### Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 12 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 8 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster FQ:

- Start number 19 was manually annotated 2 times for cluster FQ.

Info for manual annotations of cluster FS:

- Start number 20 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster P5:

- Start number 8 was manually annotated 1 time for cluster P5.

### **Gene Information:**

Gene: Alexphander\_75 Start: 46658, Stop: 47605, Start Num: 8

Candidate Starts for Alexphander\_75:

(2, 46559), (4, 46610), (6, 46616), (Start: 8 @46658 has 16 MA's), (15, 46733), (16, 46736), (18, 46757), (21, 46772), (33, 46895), (41, 46925), (42, 46931), (53, 47195), (74, 47522), (75, 47546),

Gene: Altostratus\_58 Start: 33551, Stop: 34300, Start Num: 20

Candidate Starts for Altostratus\_58:

(9, 33461), (Start: 20 @33551 has 1 MA's), (28, 33653), (29, 33671), (37, 33698), (55, 33977), (57, 33995), (63, 34139), (66, 34169), (69, 34244),

Gene: ArcusAngelus\_78 Start: 47565, Stop: 48512, Start Num: 8

Candidate Starts for ArcusAngelus\_78:

(2, 47466), (6, 47523), (Start: 8 @47565 has 16 MA's), (15, 47640), (16, 47643), (18, 47664), (21, 47679), (33, 47802), (39, 47829), (41, 47832), (42, 47838), (53, 48102), (61, 48291), (62, 48294), (74, 48429), (75, 48453),

Gene: ByChance\_67 Start: 42797, Stop: 43744, Start Num: 8

Candidate Starts for ByChance\_67:

(2, 42698), (4, 42749), (6, 42755), (Start: 8 @42797 has 16 MA's), (15, 42872), (16, 42875), (18, 42896), (21, 42911), (33, 43034), (41, 43064), (42, 43070), (53, 43334), (74, 43661), (75, 43685),

Gene: Chevrolet\_80 Start: 47566, Stop: 48513, Start Num: 8

Candidate Starts for Chevrolet\_80:

(2, 47467), (6, 47524), (Start: 8 @47566 has 16 MA's), (15, 47641), (16, 47644), (18, 47665), (21, 47680), (33, 47803), (39, 47830), (41, 47833), (42, 47839), (53, 48103), (61, 48292), (62, 48295), (74, 48430), (75, 48454),

Gene: Girr\_70 Start: 46136, Stop: 47083, Start Num: 8

Candidate Starts for Girr\_70:

(4, 46088), (6, 46094), (Start: 8 @46136 has 16 MA's), (15, 46211), (16, 46214), (18, 46235), (21, 46250), (33, 46373), (41, 46403), (42, 46409), (53, 46673), (74, 47000), (75, 47024),

Gene: Gspu1\_45 Start: 32516, Stop: 33187, Start Num: 10

Candidate Starts for Gspu1\_45:

(Start: 8 @32471 has 16 MA's), (10, 32516), (17, 32558), (21, 32585), (42, 32741), (59, 32957),

Gene: Hum25\_57 Start: 32602, Stop: 33336, Start Num: 19

Candidate Starts for Hum25\_57:

(Start: 19 @32602 has 2 MA's), (30, 32725), (36, 32746), (37, 32752), (38, 32758), (44, 32791), (45, 32806), (51, 32968), (56, 33028), (63, 33178), (65, 33202), (68, 33253),

Gene: Krakatau\_68 Start: 42516, Stop: 43463, Start Num: 8

Candidate Starts for Krakatau\_68:

(4, 42468), (6, 42474), (Start: 8 @42516 has 16 MA's), (15, 42591), (16, 42594), (18, 42615), (21, 42630), (33, 42753), (41, 42783), (42, 42789), (53, 43053), (74, 43380), (75, 43404),

Gene: Madiba\_77 Start: 47713, Stop: 48660, Start Num: 8

Candidate Starts for Madiba\_77:

(2, 47614), (4, 47665), (6, 47671), (Start: 8 @47713 has 16 MA's), (15, 47788), (16, 47791), (18, 47812), (21, 47827), (33, 47950), (41, 47980), (42, 47986), (53, 48250), (74, 48577), (75, 48601),

Gene: MicyPS\_105 Start: 61596, Stop: 62462, Start Num: 7

Candidate Starts for MicyPS\_105:

(Start: 7 @61596 has 2 MA's), (11, 61647), (25, 61749), (31, 61833), (50, 61971), (52, 62049), (67, 62316),

Gene: MisterCuddles\_70 Start: 46136, Stop: 47083, Start Num: 8

Candidate Starts for MisterCuddles\_70:

(4, 46088), (6, 46094), (Start: 8 @46136 has 16 MA's), (15, 46211), (16, 46214), (18, 46235), (21, 46250), (33, 46373), (41, 46403), (42, 46409), (53, 46673), (74, 47000), (75, 47024),

Gene: MooMoo\_67 Start: 43945, Stop: 44826, Start Num: 8

Candidate Starts for MooMoo\_67:

(1, 43822), (3, 43879), (Start: 8 @43945 has 16 MA's), (12, 43999), (15, 44020), (23, 44080), (25, 44095), (26, 44110), (27, 44143), (31, 44179), (32, 44182), (48, 44293), (53, 44401), (68, 44683), (78, 44812),

Gene: Mova\_73 Start: 45137, Stop: 46084, Start Num: 8

Candidate Starts for Mova\_73:

(2, 45038), (4, 45089), (6, 45095), (Start: 8 @45137 has 16 MA's), (15, 45212), (16, 45215), (18, 45236), (21, 45251), (33, 45374), (41, 45404), (42, 45410), (53, 45674), (74, 46001), (75, 46025),

Gene: PFR1\_48 Start: 33401, Stop: 34246, Start Num: 8

Candidate Starts for PFR1\_48:

(Start: 8 @33401 has 16 MA's), (14, 33473), (15, 33476), (18, 33500), (21, 33515), (24, 33542), (26, 33566), (41, 33671), (46, 33734), (54, 33878), (72, 34160), (76, 34211),

Gene: PFR2\_50 Start: 34970, Stop: 35815, Start Num: 8

Candidate Starts for PFR2\_50:

(Start: 8 @34970 has 16 MA's), (14, 35042), (15, 35045), (18, 35069), (21, 35084), (24, 35111), (26, 35135), (41, 35240), (46, 35303), (54, 35447), (72, 35729), (76, 35780),

Gene: PSonyx\_124 Start: 65104, Stop: 65970, Start Num: 7

Candidate Starts for PSonyx\_124:

(Start: 7 @65104 has 2 MA's), (11, 65155), (25, 65257), (31, 65341), (50, 65479), (52, 65557),

Gene: Phayonce\_66 Start: 43928, Stop: 44809, Start Num: 8

Candidate Starts for Phayonce\_66:

(Start: 8 @43928 has 16 MA's), (15, 44003), (23, 44063), (25, 44078), (26, 44093), (27, 44126), (53, 44384), (70, 44702),

Gene: Pitbull\_55 Start: 31198, Stop: 31932, Start Num: 19

Candidate Starts for Pitbull\_55:

(5, 31060), (Start: 19 @31198 has 2 MA's), (30, 31321), (36, 31342), (37, 31348), (38, 31354), (40, 31357), (44, 31387), (45, 31402), (51, 31564), (56, 31624), (63, 31774), (64, 31786), (65, 31798), (68, 31849), (71, 31882),

Gene: Renaud18\_83 Start: 47137, Stop: 48084, Start Num: 8

Candidate Starts for Renaud18\_83:

(2, 47038), (6, 47095), (Start: 8 @47137 has 16 MA's), (15, 47212), (16, 47215), (18, 47236), (21, 47251), (33, 47374), (41, 47404), (42, 47410), (53, 47674), (61, 47863), (62, 47866), (74, 48001), (75, 48025),

Gene: Ruby\_68 Start: 46137, Stop: 47084, Start Num: 8

Candidate Starts for Ruby\_68:

(4, 46089), (6, 46095), (Start: 8 @46137 has 16 MA's), (15, 46212), (16, 46215), (18, 46236), (21, 46251), (33, 46374), (41, 46404), (42, 46410), (53, 46674), (74, 47001), (75, 47025),

Gene: ShowerHandel\_77 Start: 46737, Stop: 47684, Start Num: 8

Candidate Starts for ShowerHandel\_77:

(2, 46638), (4, 46689), (6, 46695), (Start: 8 @46737 has 16 MA's), (15, 46812), (16, 46815), (18, 46836), (21, 46851), (33, 46974), (41, 47004), (42, 47010), (53, 47274), (74, 47601), (75, 47625),

Gene: Stap\_68 Start: 43382, Stop: 44329, Start Num: 8

Candidate Starts for Stap\_68:

(4, 43334), (6, 43340), (Start: 8 @43382 has 16 MA's), (15, 43457), (16, 43460), (18, 43481), (21, 43496), (33, 43619), (41, 43649), (42, 43655), (53, 43919), (74, 44246), (75, 44270),

Gene: Taotie\_126 Start: 64036, Stop: 64902, Start Num: 7

Candidate Starts for Taotie\_126:

(Start: 7 @64036 has 2 MA's), (14, 64111), (25, 64189), (31, 64273), (32, 64276), (34, 64282), (35, 64291), (43, 64318), (47, 64375), (52, 64486),

Gene: Topiatin\_78 Start: 46863, Stop: 47810, Start Num: 8

Candidate Starts for Topiatin\_78:

(4, 46815), (6, 46821), (Start: 8 @46863 has 16 MA's), (15, 46938), (16, 46941), (18, 46962), (21, 46977), (33, 47100), (41, 47130), (42, 47136), (53, 47400), (62, 47592), (74, 47727), (75, 47751),

Gene: WilliamBoone\_105 Start: 60775, Stop: 61641, Start Num: 8

Candidate Starts for WilliamBoone\_105:

(Start: 8 @60775 has 16 MA's), (13, 60844), (18, 60877), (21, 60892), (22, 60898), (31, 61012), (49, 61135), (58, 61300), (60, 61387), (61, 61417), (73, 61549), (77, 61612),