

# Pham 155069



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 155069 Report

This analysis was run 04/12/24 on database version 558.

Pham number 155069 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : NHagos\_75
- Track 2 : CloverMinnie\_77
- Track 3 : Fresco\_78, Axumite\_78, Ligma\_78, Shatter\_78
- Track 4 : AnarQue\_80, Wooper\_80, MakoManhole\_76, MossRose\_78
- Track 5 : CharlottesWeb\_74
- Track 6 : CaiB\_79
- Track 7 : Yago84\_75
- Track 8 : BiggityBass\_76
- Track 9 : LittleMunchkin\_76
- Track 10 : Sour\_73
- Track 11 : Mariokart\_74
- Track 12 : Sisko\_76

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

The start number called the most often in the published annotations is 16, it was called in 10 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnarQue\_80, Axumite\_78, CaiB\_79, CharlottesWeb\_74, CloverMinnie\_77, Fresco\_78, Ligma\_78, MakoManhole\_76, Mariokart\_74, MossRose\_78, NHagos\_75, Shatter\_78, Sour\_73, Wooper\_80,

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:

- BiggityBass\_76, LittleMunchkin\_76, Sisko\_76, Yago84\_75,

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

Start 11:

- Found in 4 of 18 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 3 of 14

- Called 75.0% of time when present
- Phage (with cluster) where this start called: LittleMunchkin\_76 (DR), Sisko\_76 (DR), Yago84\_75 (DR),

Start 12:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiggityBass\_76 (DR),

Start 16:

- Found in 14 of 18 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 10 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnarQue\_80 (DR), Axumite\_78 (DR), CaiB\_79 (DR), CharlottesWeb\_74 (DR), CloverMinnie\_77 (DR), Fresco\_78 (DR), Ligma\_78 (DR), MakoManhole\_76 (DR), Mariokart\_74 (DR), MossRose\_78 (DR), NHagos\_75 (DR), Shatter\_78 (DR), Sour\_73 (DR), Wooper\_80 (DR),

### Summary by clusters:

There is one cluster represented in this pham: DR

Info for manual annotations of cluster DR:

- Start number 11 was manually annotated 3 times for cluster DR.
- Start number 12 was manually annotated 1 time for cluster DR.
- Start number 16 was manually annotated 10 times for cluster DR.

### Gene Information:

Gene: AnarQue\_80 Start: 58928, Stop: 58365, Start Num: 16

Candidate Starts for AnarQue\_80:

(Start: 16 @58928 has 10 MA's), (27, 58829), (31, 58754), (34, 58703), (36, 58661), (40, 58565), (44, 58544), (57, 58397),

Gene: Axumite\_78 Start: 57722, Stop: 57081, Start Num: 16

Candidate Starts for Axumite\_78:

(1, 58226), (14, 57773), (Start: 16 @57722 has 10 MA's), (31, 57536), (33, 57518), (38, 57365), (43, 57335), (44, 57326), (48, 57278),

Gene: BiggityBass\_76 Start: 59275, Stop: 58550, Start Num: 12

Candidate Starts for BiggityBass\_76:

(6, 59377), (9, 59326), (Start: 11 @59278 has 3 MA's), (Start: 12 @59275 has 1 MA's), (18, 59182), (20, 59173), (27, 59074), (30, 59002), (36, 58906), (39, 58822), (43, 58798), (52, 58714), (55, 58657),

Gene: CaiB\_79 Start: 58726, Stop: 58160, Start Num: 16

Candidate Starts for CaiB\_79:

(4, 58987), (Start: 16 @58726 has 10 MA's), (27, 58627), (31, 58552), (34, 58501), (36, 58459), (40, 58363), (44, 58342), (57, 58192),

Gene: CharlottesWeb\_74 Start: 56348, Stop: 55770, Start Num: 16

Candidate Starts for CharlottesWeb\_74:

(7, 56525), (8, 56507), (10, 56450), (Start: 16 @56348 has 10 MA's), (25, 56291), (31, 56180), (32, 56177), (33, 56162), (36, 56087), (39, 56003), (42, 55982), (44, 55970), (45, 55964), (46, 55946), (54, 55850),

Gene: CloverMinnie\_77 Start: 57895, Stop: 57329, Start Num: 16

Candidate Starts for CloverMinnie\_77:

(15, 57916), (Start: 16 @57895 has 10 MA's), (27, 57796), (31, 57721), (34, 57670), (36, 57628), (40, 57532), (44, 57511), (57, 57361),

Gene: Fresco\_78 Start: 57728, Stop: 57087, Start Num: 16

Candidate Starts for Fresco\_78:

(1, 58232), (14, 57779), (Start: 16 @57728 has 10 MA's), (31, 57542), (33, 57524), (38, 57371), (43, 57341), (44, 57332), (48, 57284),

Gene: Ligma\_78 Start: 57722, Stop: 57081, Start Num: 16

Candidate Starts for Ligma\_78:

(1, 58226), (14, 57773), (Start: 16 @57722 has 10 MA's), (31, 57536), (33, 57518), (38, 57365), (43, 57335), (44, 57326), (48, 57278),

Gene: LittleMunchkin\_76 Start: 59392, Stop: 58763, Start Num: 11

Candidate Starts for LittleMunchkin\_76:

(3, 59566), (5, 59548), (9, 59440), (Start: 11 @59392 has 3 MA's), (17, 59296), (29, 59149), (30, 59125), (31, 59119), (32, 59116), (36, 59029), (50, 58852),

Gene: MakoManhole\_76 Start: 57267, Stop: 56704, Start Num: 16

Candidate Starts for MakoManhole\_76:

(Start: 16 @57267 has 10 MA's), (27, 57168), (31, 57093), (34, 57042), (36, 57000), (40, 56904), (44, 56883), (57, 56736),

Gene: Mariokart\_74 Start: 56634, Stop: 56044, Start Num: 16

Candidate Starts for Mariokart\_74:

(Start: 16 @56634 has 10 MA's), (25, 56580), (26, 56571), (31, 56469), (32, 56466), (33, 56451), (36, 56376), (39, 56292), (42, 56271), (44, 56259), (45, 56253), (46, 56235), (54, 56136), (58, 56085), (60, 56055),

Gene: MossRose\_78 Start: 58178, Stop: 57615, Start Num: 16

Candidate Starts for MossRose\_78:

(Start: 16 @58178 has 10 MA's), (27, 58079), (31, 58004), (34, 57953), (36, 57911), (40, 57815), (44, 57794), (57, 57647),

Gene: NHagos\_75 Start: 56476, Stop: 55907, Start Num: 16

Candidate Starts for NHagos\_75:

(Start: 16 @56476 has 10 MA's), (22, 56458), (24, 56440), (31, 56308), (36, 56215), (41, 56113), (43, 56107), (44, 56098), (50, 56050), (56, 55942), (58, 55927),

Gene: Shatter\_78 Start: 57722, Stop: 57081, Start Num: 16

Candidate Starts for Shatter\_78:

(1, 58226), (14, 57773), (Start: 16 @57722 has 10 MA's), (31, 57536), (33, 57518), (38, 57365), (43, 57335), (44, 57326), (48, 57278),

Gene: Sisko\_76 Start: 58151, Stop: 57393, Start Num: 11

Candidate Starts for Sisko\_76:

(5, 58307), (9, 58199), (Start: 11 @58151 has 3 MA's), (13, 58112), (18, 58049), (20, 58040), (28, 57905), (33, 57833), (35, 57767), (37, 57683), (39, 57674), (43, 57650), (52, 57566),

Gene: Sour\_73 Start: 58426, Stop: 57770, Start Num: 16

Candidate Starts for Sour\_73:

(2, 58831), (Start: 16 @58426 has 10 MA's), (19, 58420), (21, 58417), (23, 58393), (31, 58240), (32, 58237), (35, 58156), (37, 58072), (43, 58039), (51, 57961), (53, 57949), (59, 57835),

Gene: Wooper\_80 Start: 58260, Stop: 57697, Start Num: 16

Candidate Starts for Wooper\_80:

(Start: 16 @58260 has 10 MA's), (27, 58161), (31, 58086), (34, 58035), (36, 57993), (40, 57897), (44, 57876), (57, 57729),

Gene: Yago84\_75 Start: 57850, Stop: 57104, Start Num: 11

Candidate Starts for Yago84\_75:

(5, 58006), (9, 57898), (Start: 11 @57850 has 3 MA's), (13, 57811), (18, 57748), (20, 57739), (29, 57595), (32, 57562), (36, 57475), (47, 57334), (49, 57304), (52, 57277), (55, 57220),