# Pham 344480


2
7
12
13
14
17
24
1: Aminay_34
1
4
5
9
15
19
20
23
24
2: Zenon_39 + 3
1
4
5
15
19
20
23
24
3: Papyrus_38 + 3
1
4
5
10
15
19
20
23
24
4: Riparian_38
1
4
5
9
15
19
20
23
24
5: Yelo_38
1
4
5
15
19
20
23
24
6: MontyDev_38
3
6
8
9
11
16
18
21
22
7: Patience_45 + 4

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 344480 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344480 has 17 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Aminay_34
• Track 2 : Zenon_39, Send513_38, Gimesa_39, Candle_38
• Track 3 : Papyrus_38, Nilo_39, Rope_38, Weiss13_38
• Track 4 : Riparian_38
• Track 5 : Yelo_38
• Track 6 : MontyDev_38
• Track 7 : Patience_45, SuperSonics_44, Madruga_43, Demikore_45, Labelle_44

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Candle_38, Gimesa_39, Nilo_39, Papyrus_38, Riparian_38, Rope_38, Send513_38, Weiss13_38, Zenon_39,

Genes that have the "Most Annotated" start but do not call it:
• MontyDev_38, Yelo_38,

Genes that do not have the "Most Annotated" start:
• Aminay_34, Demikore_45, Labelle_44, Madruga_43, Patience_45, SuperSonics_44,

**Summary by start number:**

Start 2:
• Found in 1 of 17 ( 5.9% ) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_34 (K7),

Start 3:
• Found in 5 of 17 ( 29.4% ) of genes in pham
• Manual Annotations of this start: 4 of 15

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Demikore_45 (U), Labelle_44 (U), Madruga_43 (U), Patience_45 (U), SuperSonics_44 (U),

Start 4:
• Found in 11 of 17 ( 64.7% ) of genes in pham
• Manual Annotations of this start: 8 of 15
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Candle_38 (R), Gimesa_39 (R), Nilo_39 (R), Papyrus_38 (R), Riparian_38 (R), Rope_38 (R), Send513_38 (R), Weiss13_38 (R), Zenon_39 (R),

Start 5:
• Found in 11 of 17 ( 64.7% ) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 18.2% of time when present
• Phage (with cluster) where this start called: MontyDev_38 (R), Yelo_38 (R),

**Summary by clusters:**

There are 3 clusters represented in this pham: U, R, K7,

Info for manual annotations of cluster K7:
•Start number 2 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster R:
•Start number 4 was manually annotated 8 times for cluster R.
•Start number 5 was manually annotated 2 times for cluster R.

Info for manual annotations of cluster U:
•Start number 3 was manually annotated 4 times for cluster U.

***Gene Information:***

Gene: Aminay_34 Start: 29414, Stop: 29812, Start Num: 2
Candidate Starts for Aminay_34:
(Start: 2 @29414 has 1 MA's), (7, 29483), (12, 29552), (13, 29591), (14, 29663), (17, 29708), (24, 29786),

Gene: Candle_38 Start: 34945, Stop: 35349, Start Num: 4
Candidate Starts for Candle_38:
(1, 34828), (Start: 4 @34945 has 8 MA's), (Start: 5 @34951 has 2 MA's), (9, 34990), (15, 35194), (19, 35233), (20, 35239), (23, 35284), (24, 35290),

Gene: Demikore_45 Start: 37094, Stop: 37480, Start Num: 3
Candidate Starts for Demikore_45:
(Start: 3 @37094 has 4 MA's), (6, 37145), (8, 37172), (9, 37175), (11, 37223), (16, 37358), (18, 37391), (21, 37403), (22, 37409),

Gene: Gimesa_39 Start: 34744, Stop: 35148, Start Num: 4
Candidate Starts for Gimesa_39:

(1, 34627), (Start: 4 @34744 has 8 MA's), (Start: 5 @34750 has 2 MA's), (9, 34789), (15, 34993), (19, 35032), (20, 35038), (23, 35083), (24, 35089),

Gene: Labelle_44 Start: 37097, Stop: 37483, Start Num: 3
Candidate Starts for Labelle_44:
(Start: 3 @37097 has 4 MA's), (6, 37148), (8, 37175), (9, 37178), (11, 37226), (16, 37361), (18, 37394), (21, 37406), (22, 37412),

Gene: Madruga_43 Start: 36765, Stop: 37151, Start Num: 3
Candidate Starts for Madruga_43:
(Start: 3 @36765 has 4 MA's), (6, 36816), (8, 36843), (9, 36846), (11, 36894), (16, 37029), (18, 37062), (21, 37074), (22, 37080),

Gene: MontyDev_38 Start: 34598, Stop: 34996, Start Num: 5
Candidate Starts for MontyDev_38:
(1, 34475), (Start: 4 @34592 has 8 MA's), (Start: 5 @34598 has 2 MA's), (15, 34841), (19, 34880), (20, 34886), (23, 34931), (24, 34937),

Gene: Nilo_39 Start: 34948, Stop: 35352, Start Num: 4
Candidate Starts for Nilo_39:
(1, 34831), (Start: 4 @34948 has 8 MA's), (Start: 5 @34954 has 2 MA's), (15, 35197), (19, 35236), (20, 35242), (23, 35287), (24, 35293),

Gene: Papyrus_38 Start: 34607, Stop: 35011, Start Num: 4
Candidate Starts for Papyrus_38:
(1, 34490), (Start: 4 @34607 has 8 MA's), (Start: 5 @34613 has 2 MA's), (15, 34856), (19, 34895), (20, 34901), (23, 34946), (24, 34952),

Gene: Patience_45 Start: 37646, Stop: 38032, Start Num: 3
Candidate Starts for Patience_45:
(Start: 3 @37646 has 4 MA's), (6, 37697), (8, 37724), (9, 37727), (11, 37775), (16, 37910), (18, 37943), (21, 37955), (22, 37961),

Gene: Riparian_38 Start: 34409, Stop: 34813, Start Num: 4
Candidate Starts for Riparian_38:
(1, 34292), (Start: 4 @34409 has 8 MA's), (Start: 5 @34415 has 2 MA's), (10, 34472), (15, 34658), (19, 34697), (20, 34703), (23, 34748), (24, 34754),

Gene: Rope_38 Start: 34589, Stop: 34993, Start Num: 4
Candidate Starts for Rope_38:
(1, 34472), (Start: 4 @34589 has 8 MA's), (Start: 5 @34595 has 2 MA's), (15, 34838), (19, 34877), (20, 34883), (23, 34928), (24, 34934),

Gene: Send513_38 Start: 34945, Stop: 35349, Start Num: 4
Candidate Starts for Send513_38:
(1, 34828), (Start: 4 @34945 has 8 MA's), (Start: 5 @34951 has 2 MA's), (9, 34990), (15, 35194), (19, 35233), (20, 35239), (23, 35284), (24, 35290),

Gene: SuperSonics_44 Start: 36822, Stop: 37208, Start Num: 3
Candidate Starts for SuperSonics_44:
(Start: 3 @36822 has 4 MA's), (6, 36873), (8, 36900), (9, 36903), (11, 36951), (16, 37086), (18, 37119), (21, 37131), (22, 37137),

Gene: Weiss13_38 Start: 34641, Stop: 35045, Start Num: 4
Candidate Starts for Weiss13_38:
(1, 34524), (Start: 4 @34641 has 8 MA's), (Start: 5 @34647 has 2 MA's), (15, 34890), (19, 34929), (20, 34935), (23, 34980), (24, 34986),

Gene: Yelo_38 Start: 34940, Stop: 35338, Start Num: 5
Candidate Starts for Yelo_38:
(1, 34817), (Start: 4 @34934 has 8 MA's), (Start: 5 @34940 has 2 MA's), (9, 34979), (15, 35183), (19, 35222), (20, 35228), (23, 35273), (24, 35279),

Gene: Zenon_39 Start: 34953, Stop: 35357, Start Num: 4
Candidate Starts for Zenon_39:
(1, 34836), (Start: 4 @34953 has 8 MA's), (Start: 5 @34959 has 2 MA's), (9, 34998), (15, 35202), (19, 35241), (20, 35247), (23, 35292), (24, 35298),