# Pham 4233



1: Patelgo_13 + 2

2: Phredrick_13 + 5

3: Karp_12 + 4

4: SeresaTree_12 + 1

5: Beuffert_11

6: Annadreamy_12 + 1

7: Blueeyedbeauty_14

8: Sham_11

9: Francob_11

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 4233 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4233 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Patelgo_13, Moab_12, Forrest_14
• Track 2 : Phredrick_13, Kenrey_14, Gilson_14, MeganTheeKilla_12, Emma1919_14, Jada_12
• Track 3 : Karp_12, Belfort_14, SparkleGoddess_12, Stigma_12, Comrade_12
• Track 4 : SeresaTree_12, Faust_13
• Track 5 : Beuffert_11
• Track 6 : Annadreamy_12, Limpid_12
• Track 7 : Blueeyedbeauty_14
• Track 8 : Sham_11
• Track 9 : Francob_11


*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 11 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_12, Belfort_14, Beuffert_11, Blueeyedbeauty_14, Comrade_12, Faust_13, Karp_12, Limpid_12, SeresaTree_12, Sham_11, SparkleGoddess_12, Stigma_12,

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:
• Emma1919_14, Forrest_14, Francob_11, Gilson_14, Jada_12, Kenrey_14, MeganTheeKilla_12, Moab_12, Patelgo_13, Phredrick_13,

**Summary by start number:**

Start 4:
• Found in 12 of 22 ( 54.5% ) of genes in pham
• Manual Annotations of this start: 11 of 21
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Annadreamy_12 (BK1), Belfort_14 (BK1), Beuffert_11 (BK1), Blueeyedbeauty_14 (BK1), Comrade_12 (BK1), Faust_13 (BK1), Karp_12 (BK1), Limpid_12 (BK1), SeresaTree_12 (BK1), Sham_11 (BK1), SparkleGoddess_12 (BK1), Stigma_12 (BK1),

Start 5:
• Found in 9 of 22 ( 40.9% ) of genes in pham
• Manual Annotations of this start: 9 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Emma1919_14 (BK1), Forrest_14 (BK1), Gilson_14 (BK1), Jada_12 (BK1), Kenrey_14 (BK1), MeganTheeKilla_12 (BK1), Moab_12 (BK1), Patelgo_13 (BK1), Phredrick_13 (BK1),

Start 6:
• Found in 1 of 22 ( 4.5% ) 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: Francob_11 (BK1),

**Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:
•Start number 4 was manually annotated 11 times for cluster BK1.
•Start number 5 was manually annotated 9 times for cluster BK1.
•Start number 6 was manually annotated 1 time for cluster BK1.


*Gene Information:*
Gene: Annadreamy_12 Start: 3876, Stop: 3715, Start Num: 4
Candidate Starts for Annadreamy_12:
(Start: 4 @3876 has 11 MA's), (10, 3756),

Gene: Belfort_14 Start: 4672, Stop: 4511, Start Num: 4
Candidate Starts for Belfort_14:
(3, 4681), (Start: 4 @4672 has 11 MA's),

Gene: Beuffert_11 Start: 3706, Stop: 3545, Start Num: 4
Candidate Starts for Beuffert_11:
(Start: 4 @3706 has 11 MA's), (10, 3586),

Gene: Blueeyedbeauty_14 Start: 4539, Stop: 4378, Start Num: 4
Candidate Starts for Blueeyedbeauty_14:
(Start: 4 @4539 has 11 MA's),

Gene: Comrade_12 Start: 3885, Stop: 3724, Start Num: 4
Candidate Starts for Comrade_12:
(3, 3894), (Start: 4 @3885 has 11 MA's),

Gene: Emma1919_14 Start: 4480, Stop: 4322, Start Num: 5

Candidate Starts for Emma1919_14:
(Start: 5 @4480 has 9 MA's), (8, 4399), (9, 4369),

Gene: Faust_13 Start: 4570, Stop: 4409, Start Num: 4
Candidate Starts for Faust_13:
(1, 4606), (2, 4594), (Start: 4 @4570 has 11 MA's),

Gene: Forrest_14 Start: 4614, Stop: 4456, Start Num: 5
Candidate Starts for Forrest_14:
(Start: 5 @4614 has 9 MA's), (7, 4578),

Gene: Francob_11 Start: 3839, Stop: 3684, Start Num: 6
Candidate Starts for Francob_11:
(Start: 6 @3839 has 1 MA's), (9, 3731),

Gene: Gilson_14 Start: 4433, Stop: 4275, Start Num: 5
Candidate Starts for Gilson_14:
(Start: 5 @4433 has 9 MA's), (8, 4352), (9, 4322),

Gene: Jada_12 Start: 3794, Stop: 3636, Start Num: 5
Candidate Starts for Jada_12:
(Start: 5 @3794 has 9 MA's), (8, 3713), (9, 3683),

Gene: Karp_12 Start: 3888, Stop: 3727, Start Num: 4
Candidate Starts for Karp_12:
(3, 3897), (Start: 4 @3888 has 11 MA's),

Gene: Kenrey_14 Start: 4485, Stop: 4327, Start Num: 5
Candidate Starts for Kenrey_14:
(Start: 5 @4485 has 9 MA's), (8, 4404), (9, 4374),

Gene: Limpid_12 Start: 3875, Stop: 3714, Start Num: 4
Candidate Starts for Limpid_12:
(Start: 4 @3875 has 11 MA's), (10, 3755),

Gene: MeganTheeKilla_12 Start: 3794, Stop: 3636, Start Num: 5
Candidate Starts for MeganTheeKilla_12:
(Start: 5 @3794 has 9 MA's), (8, 3713), (9, 3683),

Gene: Moab_12 Start: 3991, Stop: 3833, Start Num: 5
Candidate Starts for Moab_12:
(Start: 5 @3991 has 9 MA's), (7, 3955),

Gene: Patelgo_13 Start: 3991, Stop: 3833, Start Num: 5
Candidate Starts for Patelgo_13:
(Start: 5 @3991 has 9 MA's), (7, 3955),

Gene: Phredrick_13 Start: 4093, Stop: 3935, Start Num: 5
Candidate Starts for Phredrick_13:
(Start: 5 @4093 has 9 MA's), (8, 4012), (9, 3982),

Gene: SeresaTree_12 Start: 3960, Stop: 3799, Start Num: 4
Candidate Starts for SeresaTree_12:

(1, 3996), (2, 3984), (Start: 4 @3960 has 11 MA's),

Gene: Sham_11 Start: 3763, Stop: 3602, Start Num: 4
Candidate Starts for Sham_11:
(Start: 4 @3763 has 11 MA's),

Gene: SparkleGoddess_12 Start: 3884, Stop: 3723, Start Num: 4
Candidate Starts for SparkleGoddess_12:
(3, 3893), (Start: 4 @3884 has 11 MA's),

Gene: Stigma_12 Start: 3888, Stop: 3727, Start Num: 4
Candidate Starts for Stigma_12:
(3, 3897), (Start: 4 @3888 has 11 MA's),