# Pham 168708

3
4
5
10
11
13
1: Tiff81_83
10
13
2: Isolde_82
5
8
10
13
3: Raphaella_83 + 1
6
7
9
10
16
18
19
4: Gorpy_81 + 2
12
4
5
10
14
16
18
5: EvePickles_83
4
10
13
17
20
6: Hillester_86 + 1
10
15
16
18
19
7: Phrank15_89
1
4
5
8
10
12
13
8: Auxilium_81

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 168708 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168708 has 12 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Tiff81_83
• Track 2 : Isolde_82
• Track 3 : Raphaella_83, Faja_85
• Track 4 : Gorpy_81, Sakai_80, CookieBear_80
• Track 5 : EvePickles_83
• Track 6 : Hillester_86, RadFad_87
• Track 7 : Phrank15_89
• Track 8 : Auxilium_81

***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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auxilium_81, CookieBear_80, EvePickles_83, Faja_85, Gorpy_81, Hillester_86, Isolde_82, Phrank15_89, RadFad_87, Raphaella_83, Sakai_80, Tiff81_83,

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

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

**Summary by start number:**

Start 10:
• Found in 12 of 12 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auxilium_81 (AY), CookieBear_80 (AY), EvePickles_83 (AY), Faja_85 (AY), Gorpy_81 (AY), Hillester_86 (AY), Isolde_82 (AY), Phrank15_89 (AY), RadFad_87 (AY), Raphaella_83 (AY), Sakai_80 (AY), Tiff81_83 (AY),

**Summary by clusters:**

There is one cluster represented in this pham: AY

Info for manual annotations of cluster AY:
•Start number 10 was manually annotated 8 times for cluster AY.

***Gene Information:***

Gene: Auxilium_81 Start: 45001, Stop: 45360, Start Num: 10
Candidate Starts for Auxilium_81:
(1, 44572), (4, 44692), (5, 44878), (8, 44917), (Start: 10 @45001 has 8 MA's), (12, 45049), (13, 45094),

Gene: CookieBear_80 Start: 46578, Stop: 46994, Start Num: 10
Candidate Starts for CookieBear_80:
(6, 46473), (7, 46479), (9, 46518), (Start: 10 @46578 has 8 MA's), (16, 46794), (18, 46881), (19, 46911),

Gene: EvePickles_83 Start: 48170, Stop: 48571, Start Num: 10
Candidate Starts for EvePickles_83:
(1, 47741), (2, 47747), (4, 47861), (5, 48047), (Start: 10 @48170 has 8 MA's), (14, 48293), (16, 48386), (18, 48473),

Gene: Faja_85 Start: 48003, Stop: 48362, Start Num: 10
Candidate Starts for Faja_85:
(5, 47880), (8, 47919), (Start: 10 @48003 has 8 MA's), (13, 48096),

Gene: Gorpy_81 Start: 47920, Stop: 48336, Start Num: 10
Candidate Starts for Gorpy_81:
(6, 47815), (7, 47821), (9, 47860), (Start: 10 @47920 has 8 MA's), (16, 48136), (18, 48223), (19, 48253),

Gene: Hillester_86 Start: 47374, Stop: 47820, Start Num: 10
Candidate Starts for Hillester_86:
(4, 47065), (Start: 10 @47374 has 8 MA's), (13, 47467), (17, 47593), (20, 47689),

Gene: Isolde_82 Start: 47475, Stop: 47825, Start Num: 10
Candidate Starts for Isolde_82:
(Start: 10 @47475 has 8 MA's), (13, 47568),

Gene: Phrank15_89 Start: 47981, Stop: 48337, Start Num: 10
Candidate Starts for Phrank15_89:
(Start: 10 @47981 has 8 MA's), (15, 48137), (16, 48149), (18, 48236), (19, 48266),

Gene: RadFad_87 Start: 47374, Stop: 47820, Start Num: 10
Candidate Starts for RadFad_87:
(4, 47065), (Start: 10 @47374 has 8 MA's), (13, 47467), (17, 47593), (20, 47689),

Gene: Raphaella_83 Start: 46297, Stop: 46656, Start Num: 10

Candidate Starts for Raphaella_83:
(5, 46174), (8, 46213), (Start: 10 @46297 has 8 MA's), (13, 46390),

Gene: Sakai_80 Start: 46631, Stop: 47047, Start Num: 10
Candidate Starts for Sakai_80:
(6, 46526), (7, 46532), (9, 46571), (Start: 10 @46631 has 8 MA's), (16, 46847), (18, 46934), (19, 46964),

Gene: Tiff81_83 Start: 45438, Stop: 45797, Start Num: 10
Candidate Starts for Tiff81_83:
(3, 45051), (4, 45129), (5, 45315), (Start: 10 @45438 has 8 MA's), (11, 45447), (13, 45531),