# Pham 197138


1: Farewell_69
2: Ogopogo_51
3: Che8_53
4: Silvafighter_56
5: Melville_59 + 1
6: Jeon_63
7: LilSpotty_71

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 197138 Report

This analysis was run 12/09/24 on database version 580.

Pham number 197138 has 8 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Farewell_69
• Track 2 : Ogopogo_51
• Track 3 : Che8_53
• Track 4 : Silvafighter_56
• Track 5 : Melville_59, Duplicity_53
• Track 6 : Jeon_63
• Track 7 : LilSpotty_71

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

Genes that call this "Most Annotated" start:
• Che8_53, Duplicity_53, Jeon_63, LilSpotty_71, Melville_59,

Genes that have the "Most Annotated" start but do not call it:
• Farewell_69, Ogopogo_51, Silvafighter_56,

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

**Summary by start number:**

Start 5:
• Found in 5 of 8 ( 62.5% ) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Farewell_69 (AF), Silvafighter_56 (N),

Start 6:
• Found in 6 of 8 ( 75.0% ) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 16.7% of time when present

• Phage (with cluster) where this start called: Ogopogo_51 (F1),

Start 10:
• Found in 8 of 8 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Che8_53 (F1), Duplicity_53 (N), Jeon_63 (W), LilSpotty_71 (singleton), Melville_59 (N),

**Summary by clusters:**

There are 5 clusters represented in this pham: F1, singleton, AF, W, N,

Info for manual annotations of cluster AF:
•Start number 5 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster F1:
•Start number 6 was manually annotated 1 time for cluster F1.
•Start number 10 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:
•Start number 5 was manually annotated 1 time for cluster N.
•Start number 10 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster W:
•Start number 10 was manually annotated 1 time for cluster W.

***Gene Information:***

Gene: Che8_53 Start: 37842, Stop: 38123, Start Num: 10
Candidate Starts for Che8_53:
(Start: 10 @37842 has 5 MA's), (12, 37875), (14, 37902), (16, 37914), (17, 37926), (28, 38040),

Gene: Duplicity_53 Start: 35954, Stop: 36301, Start Num: 10
Candidate Starts for Duplicity_53:
(Start: 5 @35864 has 2 MA's), (Start: 6 @35900 has 1 MA's), (Start: 10 @35954 has 5 MA's), (13, 35996), (15, 36017), (21, 36068), (29, 36197), (33, 36239),

Gene: Farewell_69 Start: 47142, Stop: 47591, Start Num: 5
Candidate Starts for Farewell_69:
(1, 47049), (3, 47109), (4, 47133), (Start: 5 @47142 has 2 MA's), (Start: 6 @47178 has 1 MA's), (Start: 10 @47235 has 5 MA's), (22, 47406), (24, 47436), (25, 47442), (26, 47445), (27, 47448), (32, 47520), (34, 47553),

Gene: Jeon_63 Start: 48868, Stop: 49173, Start Num: 10
Candidate Starts for Jeon_63:
(2, 48709), (Start: 10 @48868 has 5 MA's), (11, 48880), (16, 48943), (18, 48958), (19, 48985), (20, 48991), (22, 49039), (32, 49153),

Gene: LilSpotty_71 Start: 43082, Stop: 43513, Start Num: 10
Candidate Starts for LilSpotty_71:

(Start: 5 @42992 has 2 MA's), (Start: 6 @43028 has 1 MA's), (Start: 10 @43082 has 5 MA's), (13, 43124), (23, 43286), (29, 43349), (35, 43466),

Gene: Melville_59 Start: 36268, Stop: 36615, Start Num: 10
Candidate Starts for Melville_59:
(Start: 5 @36178 has 2 MA's), (Start: 6 @36214 has 1 MA's), (Start: 10 @36268 has 5 MA's), (13, 36310), (15, 36331), (21, 36382), (29, 36511), (33, 36553),

Gene: Ogopogo_51 Start: 36143, Stop: 36514, Start Num: 6
Candidate Starts for Ogopogo_51:
(Start: 6 @36143 has 1 MA's), (7, 36155), (8, 36176), (9, 36182), (Start: 10 @36191 has 5 MA's), (22, 36362), (30, 36458), (31, 36467),

Gene: Silvafighter_56 Start: 36170, Stop: 36607, Start Num: 5
Candidate Starts for Silvafighter_56:
(Start: 5 @36170 has 2 MA's), (Start: 6 @36206 has 1 MA's), (Start: 10 @36260 has 5 MA's), (13, 36302), (15, 36323), (21, 36374), (29, 36503), (33, 36545),