# Pham 164137


4
6
8
15
16
1: SV1_28
4
7
9
11
13
14
16
2: ToastyFinz_29
2
4
6
15
16
3: Picard_31 + 1
3
10
12
16
4: SoJo_30
1
4
5
16
5: Darolandstone_30
4
5
16
6: Raleigh_30

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 164137 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 164137 has 7 members, 0 are drafts.

Phages represented in each track:
- Track 1 : SV1_28
- Track 2 : ToastyFinz_29
- Track 3 : Picard_31, Mojorita_31
- Track 4 : SoJo_30
- Track 5 : Darolandstone_30
- Track 6 : Raleigh_30

***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 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Mojorita_31, Picard_31, Raleigh_30, SV1_28, ToastyFinz_29,

Genes that have the "Most Annotated" start but do not call it:
- Darolandstone_30,

Genes that do not have the "Most Annotated" start:
- SoJo_30,

**Summary by start number:**

Start 3:
- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SoJo_30 (BC1),

Start 4:

• Found in 6 of 7 ( 85.7% ) of genes in pham
• Manual Annotations of this start: 5 of 7
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Mojorita_31 (BC1), Picard_31 (BC1), Raleigh_30 (BC2), SV1_28 (BC1), ToastyFinz_29 (BC1),

Start 5:
• Found in 2 of 7 ( 28.6% ) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Darolandstone_30 (BC2),

**Summary by clusters:**

There are 2 clusters represented in this pham: BC1, BC2,

Info for manual annotations of cluster BC1:
•Start number 3 was manually annotated 1 time for cluster BC1.
•Start number 4 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 4 was manually annotated 1 time for cluster BC2.
•Start number 5 was manually annotated 1 time for cluster BC2.

***Gene Information:***

Gene: Darolandstone_30 Start: 24968, Stop: 24564, Start Num: 5
Candidate Starts for Darolandstone_30:
(1, 25070), (Start: 4 @24983 has 5 MA's), (Start: 5 @24968 has 1 MA's), (16, 24617),

Gene: Mojorita_31 Start: 23757, Stop: 23365, Start Num: 4
Candidate Starts for Mojorita_31:
(2, 23775), (Start: 4 @23757 has 5 MA's), (6, 23721), (15, 23526), (16, 23415),

Gene: Picard_31 Start: 23955, Stop: 23563, Start Num: 4
Candidate Starts for Picard_31:
(2, 23973), (Start: 4 @23955 has 5 MA's), (6, 23919), (15, 23724), (16, 23613),

Gene: Raleigh_30 Start: 25495, Stop: 25079, Start Num: 4
Candidate Starts for Raleigh_30:
(Start: 4 @25495 has 5 MA's), (Start: 5 @25480 has 1 MA's), (16, 25132),

Gene: SV1_28 Start: 22683, Stop: 22291, Start Num: 4
Candidate Starts for SV1_28:
(Start: 4 @22683 has 5 MA's), (6, 22647), (8, 22596), (15, 22452), (16, 22344),

Gene: SoJo_30 Start: 25107, Stop: 24700, Start Num: 3
Candidate Starts for SoJo_30:
(Start: 3 @25107 has 1 MA's), (10, 24999), (12, 24984), (16, 24756),

Gene: ToastyFinz_29 Start: 25006, Stop: 24641, Start Num: 4

Candidate Starts for ToastyFinz_29:
(Start: 4 @25006 has 5 MA's), (7, 24964), (9, 24913), (11, 24889), (13, 24853), (14, 24793), (16, 24694),