# Pham 203521



1: Niklas_64 + 5

2: MarkPhew_65

3: Pixie_61

4: Keshu_64

5: Hurricane_62

6: ShedlockHolmes_63

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 203521 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203521 has 11 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Niklas_64, Richo_64, Dartin_64, Shaobing_64, McMater_64, Peanam_64
• Track 2 : MarkPhew_65
• Track 3 : Pixie_61
• Track 4 : Keshu_64
• Track 5 : Hurricane_62
• Track 6 : ShedlockHolmes_63


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

The start number called the most often in the published annotations is 3, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dartin_64, Keshu_64, MarkPhew_65, McMater_64, Niklas_64, Peanam_64, Richo_64, Shaobing_64,

Genes that have the "Most Annotated" start but do not call it:
• Hurricane_62, Pixie_61, ShedlockHolmes_63,

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

**Summary by start number:**

Start 1:
• Found in 11 of 11 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Pixie_61 (K3), ShedlockHolmes_63 (K3),

Start 2:
• Found in 1 of 11 ( 9.1% ) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Hurricane_62 (K3),

Start 3:
• Found in 11 of 11 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Dartin_64 (K1), Keshu_64 (K3), MarkPhew_65 (K1), McMater_64 (K1), Niklas_64 (K1), Peanam_64 (K1), Richo_64 (K1), Shaobing_64 (K1),

**Summary by clusters:**

There are 2 clusters represented in this pham: K3, K1,

Info for manual annotations of cluster K1:
•Start number 3 was manually annotated 4 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 1 was manually annotated 2 times for cluster K3.
•Start number 2 was manually annotated 1 time for cluster K3.
•Start number 3 was manually annotated 1 time for cluster K3.

*Gene Information:*
Gene: Dartin_64 Start: 42605, Stop: 42799, Start Num: 3
Candidate Starts for Dartin_64:
(Start: 1 @42575 has 2 MA's), (Start: 3 @42605 has 5 MA's), (4, 42620),

Gene: Hurricane_62 Start: 42432, Stop: 42641, Start Num: 2
Candidate Starts for Hurricane_62:
(Start: 1 @42420 has 2 MA's), (Start: 2 @42432 has 1 MA's), (Start: 3 @42450 has 5 MA's),

Gene: Keshu_64 Start: 42548, Stop: 42739, Start Num: 3
Candidate Starts for Keshu_64:
(Start: 1 @42518 has 2 MA's), (Start: 3 @42548 has 5 MA's),

Gene: MarkPhew_65 Start: 42579, Stop: 42773, Start Num: 3
Candidate Starts for MarkPhew_65:
(Start: 1 @42549 has 2 MA's), (Start: 3 @42579 has 5 MA's), (5, 42663),

Gene: McMater_64 Start: 42605, Stop: 42799, Start Num: 3
Candidate Starts for McMater_64:
(Start: 1 @42575 has 2 MA's), (Start: 3 @42605 has 5 MA's), (4, 42620),

Gene: Niklas_64 Start: 42666, Stop: 42860, Start Num: 3
Candidate Starts for Niklas_64:
(Start: 1 @42636 has 2 MA's), (Start: 3 @42666 has 5 MA's), (4, 42681),

Gene: Peanam_64 Start: 42624, Stop: 42818, Start Num: 3
Candidate Starts for Peanam_64:
(Start: 1 @42594 has 2 MA's), (Start: 3 @42624 has 5 MA's), (4, 42639),

Gene: Pixie_61 Start: 41940, Stop: 42161, Start Num: 1
Candidate Starts for Pixie_61:
(Start: 1 @41940 has 2 MA's), (Start: 3 @41970 has 5 MA's),

Gene: Richo_64 Start: 42605, Stop: 42799, Start Num: 3
Candidate Starts for Richo_64:
(Start: 1 @42575 has 2 MA's), (Start: 3 @42605 has 5 MA's), (4, 42620),

Gene: Shaobing_64 Start: 42642, Stop: 42836, Start Num: 3
Candidate Starts for Shaobing_64:
(Start: 1 @42612 has 2 MA's), (Start: 3 @42642 has 5 MA's), (4, 42657),

Gene: ShedlockHolmes_63 Start: 42459, Stop: 42680, Start Num: 1
Candidate Starts for ShedlockHolmes_63:
(Start: 1 @42459 has 2 MA's), (Start: 3 @42489 has 5 MA's),