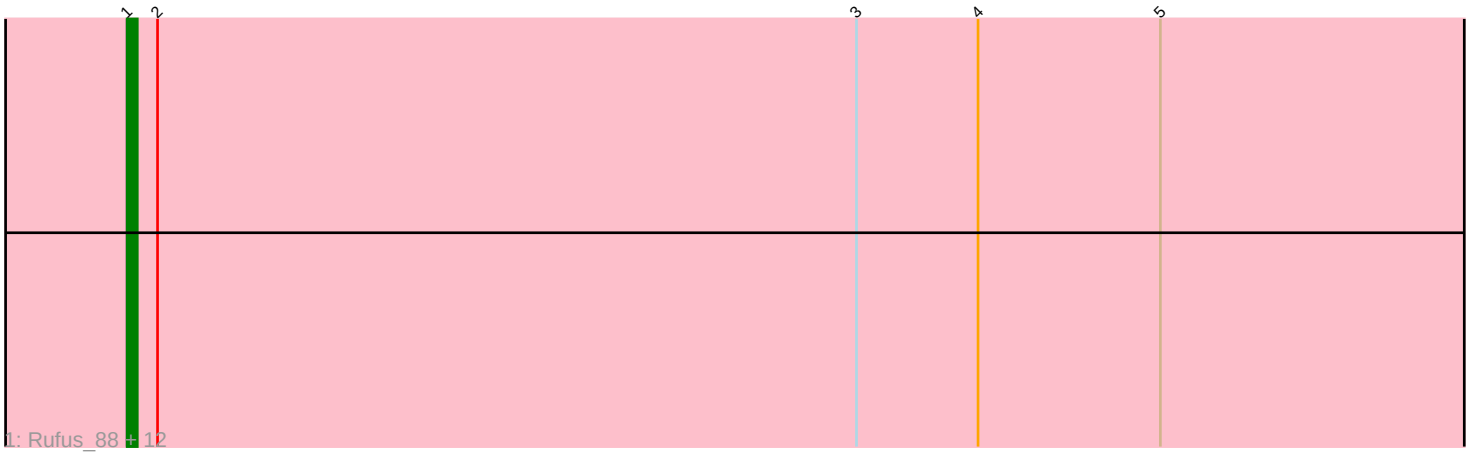
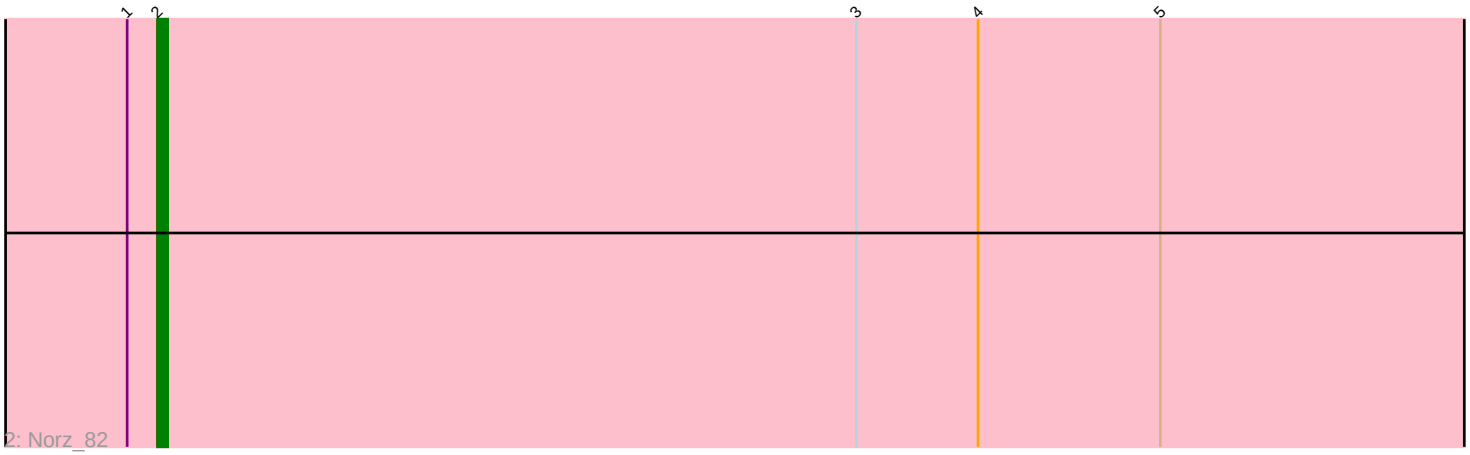
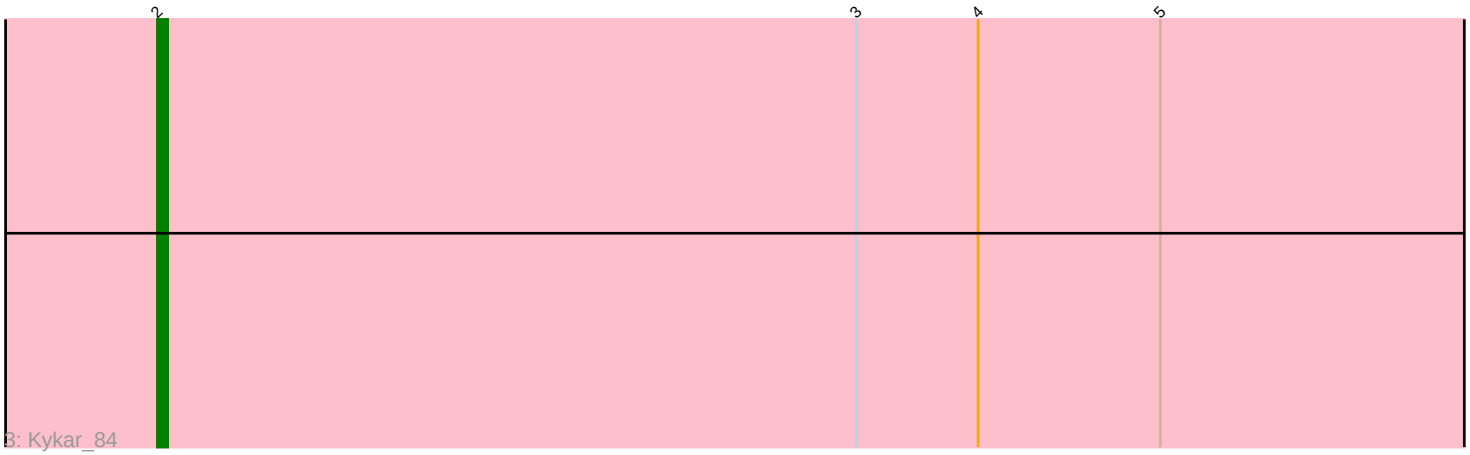
# Pham 87111



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 87111 Report

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

Pham number 87111 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Rufus_88, Magnito_84, AFIS_83, Crispicous1_80, Turj99_81, PascalRango_83, Sorpresa_84, Ohno789_90, Sandaddy_85, SarFire_90, SpikeBT_82, Thor_90, NEHalo_83
• Track 2 : Norz_82
• Track 3 : Kykar_84

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AFIS_83, Crispicous1_80, Magnito_84, NEHalo_83, Ohno789_90, PascalRango_83, Rufus_88, Sandaddy_85, SarFire_90, Sorpresa_84, SpikeBT_82, Thor_90, Turj99_81,

Genes that have the "Most Annotated" start but do not call it:
• Norz_82,

Genes that do not have the "Most Annotated" start:
• Kykar_84,

**Summary by start number:**

Start 1:
• Found in 14 of 15 ( 93.3% ) of genes in pham
• Manual Annotations of this start: 11 of 13
• Called 92.9% of time when present
• Phage (with cluster) where this start called: AFIS_83 (A1), Crispicous1_80 (A1), Magnito_84 (A1), NEHalo_83 (A1), Ohno789_90 (A1), PascalRango_83 (A1), Rufus_88 (A1), Sandaddy_85 (A1), SarFire_90 (A1), Sorpresa_84 (A1), SpikeBT_82 (A1), Thor_90 (A1), Turj99_81 (A1),

Start 2:

• Found in 15 of 15 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 13.3% of time when present
• Phage (with cluster) where this start called: Kykar_84 (A1), Norz_82 (A1),

**Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 11 times for cluster A1.
•Start number 2 was manually annotated 2 times for cluster A1.

***Gene Information:***

Gene: AFIS_83 Start: 49689, Stop: 49477, Start Num: 1
Candidate Starts for AFIS_83:
(Start: 1 @49689 has 11 MA's), (Start: 2 @49686 has 2 MA's), (3, 49617), (4, 49605), (5, 49587),

Gene: Crispicous1_80 Start: 46797, Stop: 46585, Start Num: 1
Candidate Starts for Crispicous1_80:
(Start: 1 @46797 has 11 MA's), (Start: 2 @46794 has 2 MA's), (3, 46725), (4, 46713), (5, 46695),

Gene: Kykar_84 Start: 48808, Stop: 48599, Start Num: 2
Candidate Starts for Kykar_84:
(Start: 2 @48808 has 2 MA's), (3, 48739), (4, 48727), (5, 48709),

Gene: Magnito_84 Start: 48504, Stop: 48292, Start Num: 1
Candidate Starts for Magnito_84:
(Start: 1 @48504 has 11 MA's), (Start: 2 @48501 has 2 MA's), (3, 48432), (4, 48420), (5, 48402),

Gene: NEHalo_83 Start: 48499, Stop: 48287, Start Num: 1
Candidate Starts for NEHalo_83:
(Start: 1 @48499 has 11 MA's), (Start: 2 @48496 has 2 MA's), (3, 48427), (4, 48415), (5, 48397),

Gene: Norz_82 Start: 51231, Stop: 51022, Start Num: 2
Candidate Starts for Norz_82:
(Start: 1 @51234 has 11 MA's), (Start: 2 @51231 has 2 MA's), (3, 51162), (4, 51150), (5, 51132),

Gene: Ohno789_90 Start: 50728, Stop: 50516, Start Num: 1
Candidate Starts for Ohno789_90:
(Start: 1 @50728 has 11 MA's), (Start: 2 @50725 has 2 MA's), (3, 50656), (4, 50644), (5, 50626),

Gene: PascalRango_83 Start: 48762, Stop: 48550, Start Num: 1
Candidate Starts for PascalRango_83:
(Start: 1 @48762 has 11 MA's), (Start: 2 @48759 has 2 MA's), (3, 48690), (4, 48678), (5, 48660),

Gene: Rufus_88 Start: 50325, Stop: 50113, Start Num: 1
Candidate Starts for Rufus_88:
(Start: 1 @50325 has 11 MA's), (Start: 2 @50322 has 2 MA's), (3, 50253), (4, 50241), (5, 50223),

Gene: Sandaddy_85 Start: 49890, Stop: 49678, Start Num: 1
Candidate Starts for Sandaddy_85:
(Start: 1 @49890 has 11 MA's), (Start: 2 @49887 has 2 MA's), (3, 49818), (4, 49806), (5, 49788),

Gene: SarFire_90 Start: 51153, Stop: 50941, Start Num: 1
Candidate Starts for SarFire_90:
(Start: 1 @51153 has 11 MA's), (Start: 2 @51150 has 2 MA's), (3, 51081), (4, 51069), (5, 51051),

Gene: Sorpresa_84 Start: 49896, Stop: 49684, Start Num: 1
Candidate Starts for Sorpresa_84:
(Start: 1 @49896 has 11 MA's), (Start: 2 @49893 has 2 MA's), (3, 49824), (4, 49812), (5, 49794),

Gene: SpikeBT_82 Start: 48143, Stop: 47931, Start Num: 1
Candidate Starts for SpikeBT_82:
(Start: 1 @48143 has 11 MA's), (Start: 2 @48140 has 2 MA's), (3, 48071), (4, 48059), (5, 48041),

Gene: Thor_90 Start: 50511, Stop: 50299, Start Num: 1
Candidate Starts for Thor_90:
(Start: 1 @50511 has 11 MA's), (Start: 2 @50508 has 2 MA's), (3, 50439), (4, 50427), (5, 50409),

Gene: Turj99_81 Start: 49115, Stop: 48903, Start Num: 1
Candidate Starts for Turj99_81:
(Start: 1 @49115 has 11 MA's), (Start: 2 @49112 has 2 MA's), (3, 49043), (4, 49031), (5, 49013),