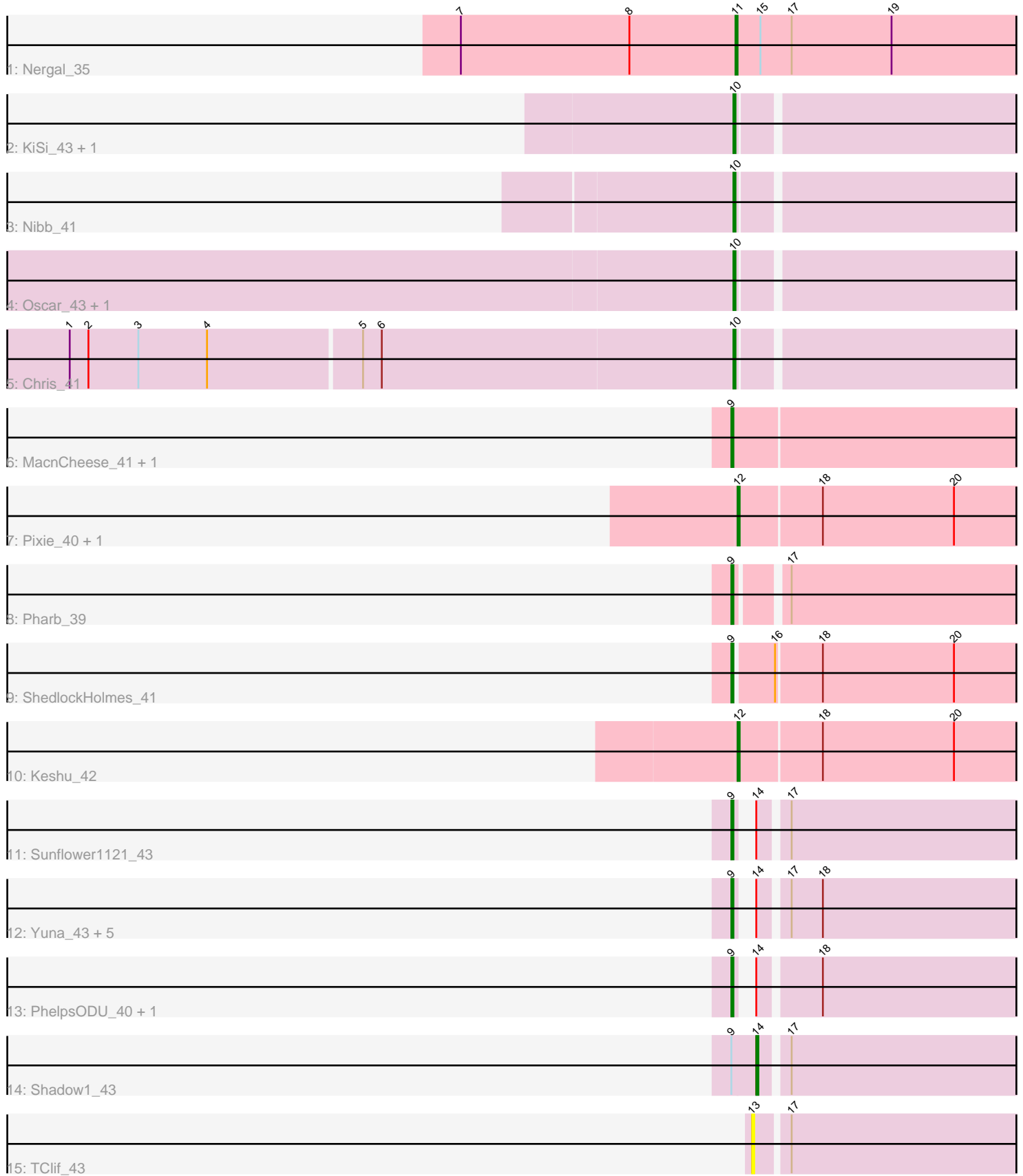


# Pham 3657



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 3657 Report

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

Pham number 3657 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nergal\_35
- Track 2 : KiSi\_43, LeMond\_43
- Track 3 : Nibb\_41
- Track 4 : Oscar\_43, Scarlett\_43
- Track 5 : Chris\_41
- Track 6 : MacnCheese\_41, Validus\_42
- Track 7 : Pixie\_40, TBond007\_40
- Track 8 : Pharb\_39
- Track 9 : ShedlockHolmes\_41
- Track 10 : Keshu\_42
- Track 11 : Sunflower1121\_43
- Track 12 : Yuna\_43, Phrank\_41, Tierra\_41, Cain\_41, Krueger\_44, Bryler\_41
- Track 13 : PhelpsODU\_40, Unicorn\_40
- Track 14 : Shadow1\_43
- Track 15 : TClif\_43

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

The start number called the most often in the published annotations is 9, it was called in 13 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bryler\_41, Cain\_41, Krueger\_44, MacnCheese\_41, Pharb\_39, PhelpsODU\_40, Phrank\_41, ShedlockHolmes\_41, Sunflower1121\_43, Tierra\_41, Unicorn\_40, Validus\_42, Yuna\_43,

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

- Shadow1\_43,

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

- Chris\_41, Keshu\_42, KiSi\_43, LeMond\_43, Nergal\_35, Nibb\_41, Oscar\_43, Pixie\_40, Scarlett\_43, TBond007\_40, TClif\_43,

### **Summary by start number:**

Start 9:

- Found in 14 of 25 ( 56.0% ) of genes in pham
- Manual Annotations of this start: 13 of 24
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Bryler\_41 (K6), Cain\_41 (K6), Krueger\_44 (K6), MacnCheese\_41 (K3), Pharb\_39 (K3), PhelpsODU\_40 (K6), Phrank\_41 (K6), ShedlockHolmes\_41 (K3), Sunflower1121\_43 (K6), Tierra\_41 (K6), Unicorn\_40 (K6), Validus\_42 (K1), Yuna\_43 (K6),

Start 10:

- Found in 6 of 25 ( 24.0% ) of genes in pham
- Manual Annotations of this start: 6 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chris\_41 (K1), KiSi\_43 (K1), LeMond\_43 (K1), Nibb\_41 (K1), Oscar\_43 (K1), Scarlett\_43 (K1),

Start 11:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal\_35 (AG),

Start 12:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- Manual Annotations of this start: 3 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keshu\_42 (K3), Pixie\_40 (K3), TBond007\_40 (K3),

Start 13:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TClif\_43 (K6),

Start 14:

- Found in 10 of 25 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Shadow1\_43 (K6),

**Summary by clusters:**

There are 4 clusters represented in this pham: K3, K1, K6, AG,

Info for manual annotations of cluster AG:

- Start number 11 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:

- Start number 9 was manually annotated 1 time for cluster K1.
- Start number 10 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 9 was manually annotated 3 times for cluster K3.
- Start number 12 was manually annotated 3 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 9 was manually annotated 9 times for cluster K6.
- Start number 14 was manually annotated 1 time for cluster K6.

### ***Gene Information:***

Gene: Bryler\_41 Start: 31178, Stop: 31354, Start Num: 9

Candidate Starts for Bryler\_41:

(Start: 9 @31178 has 13 MA's), (Start: 14 @31181 has 1 MA's), (17, 31193), (18, 31208),

Gene: Cain\_41 Start: 31166, Stop: 31342, Start Num: 9

Candidate Starts for Cain\_41:

(Start: 9 @31166 has 13 MA's), (Start: 14 @31169 has 1 MA's), (17, 31181), (18, 31196),

Gene: Chris\_41 Start: 31764, Stop: 31946, Start Num: 10

Candidate Starts for Chris\_41:

(1, 31449), (2, 31458), (3, 31482), (4, 31515), (5, 31587), (6, 31596), (Start: 10 @31764 has 6 MA's),

Gene: Keshu\_42 Start: 31745, Stop: 31930, Start Num: 12

Candidate Starts for Keshu\_42:

(Start: 12 @31745 has 3 MA's), (18, 31784), (20, 31847),

Gene: KiSi\_43 Start: 32086, Stop: 32268, Start Num: 10

Candidate Starts for KiSi\_43:

(Start: 10 @32086 has 6 MA's),

Gene: Krueger\_44 Start: 32179, Stop: 32355, Start Num: 9

Candidate Starts for Krueger\_44:

(Start: 9 @32179 has 13 MA's), (Start: 14 @32182 has 1 MA's), (17, 32194), (18, 32209),

Gene: LeMond\_43 Start: 32157, Stop: 32339, Start Num: 10

Candidate Starts for LeMond\_43:

(Start: 10 @32157 has 6 MA's),

Gene: MacnCheese\_41 Start: 31639, Stop: 31827, Start Num: 9

Candidate Starts for MacnCheese\_41:

(Start: 9 @31639 has 13 MA's),

Gene: Nergal\_35 Start: 29176, Stop: 29364, Start Num: 11

Candidate Starts for Nergal\_35:

(7, 29044), (8, 29125), (Start: 11 @29176 has 1 MA's), (15, 29188), (17, 29203), (19, 29251),

Gene: Nibb\_41 Start: 31318, Stop: 31500, Start Num: 10

Candidate Starts for Nibb\_41:

(Start: 10 @31318 has 6 MA's),

Gene: Oscar\_43 Start: 31992, Stop: 32174, Start Num: 10

Candidate Starts for Oscar\_43:  
(Start: 10 @31992 has 6 MA's),

Gene: Pharb\_39 Start: 30817, Stop: 30999, Start Num: 9  
Candidate Starts for Pharb\_39:  
(Start: 9 @30817 has 13 MA's), (17, 30838),

Gene: PhelpsODU\_40 Start: 31207, Stop: 31383, Start Num: 9  
Candidate Starts for PhelpsODU\_40:  
(Start: 9 @31207 has 13 MA's), (Start: 14 @31210 has 1 MA's), (18, 31237),

Gene: Phrank\_41 Start: 31155, Stop: 31331, Start Num: 9  
Candidate Starts for Phrank\_41:  
(Start: 9 @31155 has 13 MA's), (Start: 14 @31158 has 1 MA's), (17, 31170), (18, 31185),

Gene: Pixie\_40 Start: 31181, Stop: 31366, Start Num: 12  
Candidate Starts for Pixie\_40:  
(Start: 12 @31181 has 3 MA's), (18, 31220), (20, 31283),

Gene: Scarlett\_43 Start: 31983, Stop: 32165, Start Num: 10  
Candidate Starts for Scarlett\_43:  
(Start: 10 @31983 has 6 MA's),

Gene: Shadow1\_43 Start: 32081, Stop: 32254, Start Num: 14  
Candidate Starts for Shadow1\_43:  
(Start: 9 @32078 has 13 MA's), (Start: 14 @32081 has 1 MA's), (17, 32093),

Gene: ShedlockHolmes\_41 Start: 31710, Stop: 31895, Start Num: 9  
Candidate Starts for ShedlockHolmes\_41:  
(Start: 9 @31710 has 13 MA's), (16, 31728), (18, 31749), (20, 31812),

Gene: Sunflower1121\_43 Start: 32173, Stop: 32349, Start Num: 9  
Candidate Starts for Sunflower1121\_43:  
(Start: 9 @32173 has 13 MA's), (Start: 14 @32176 has 1 MA's), (17, 32188),

Gene: TBond007\_40 Start: 31180, Stop: 31365, Start Num: 12  
Candidate Starts for TBond007\_40:  
(Start: 12 @31180 has 3 MA's), (18, 31219), (20, 31282),

Gene: TClif\_43 Start: 31608, Stop: 31784, Start Num: 13  
Candidate Starts for TClif\_43:  
(13, 31608), (17, 31623),

Gene: Tierra\_41 Start: 31875, Stop: 32051, Start Num: 9  
Candidate Starts for Tierra\_41:  
(Start: 9 @31875 has 13 MA's), (Start: 14 @31878 has 1 MA's), (17, 31890), (18, 31905),

Gene: Unicorn\_40 Start: 31207, Stop: 31383, Start Num: 9  
Candidate Starts for Unicorn\_40:  
(Start: 9 @31207 has 13 MA's), (Start: 14 @31210 has 1 MA's), (18, 31237),

Gene: Validus\_42 Start: 31203, Stop: 31385, Start Num: 9  
Candidate Starts for Validus\_42:

(Start: 9 @31203 has 13 MA's),

Gene: Yuna\_43 Start: 32089, Stop: 32265, Start Num: 9

Candidate Starts for Yuna\_43:

(Start: 9 @32089 has 13 MA's), (Start: 14 @32092 has 1 MA's), (17, 32104), (18, 32119),