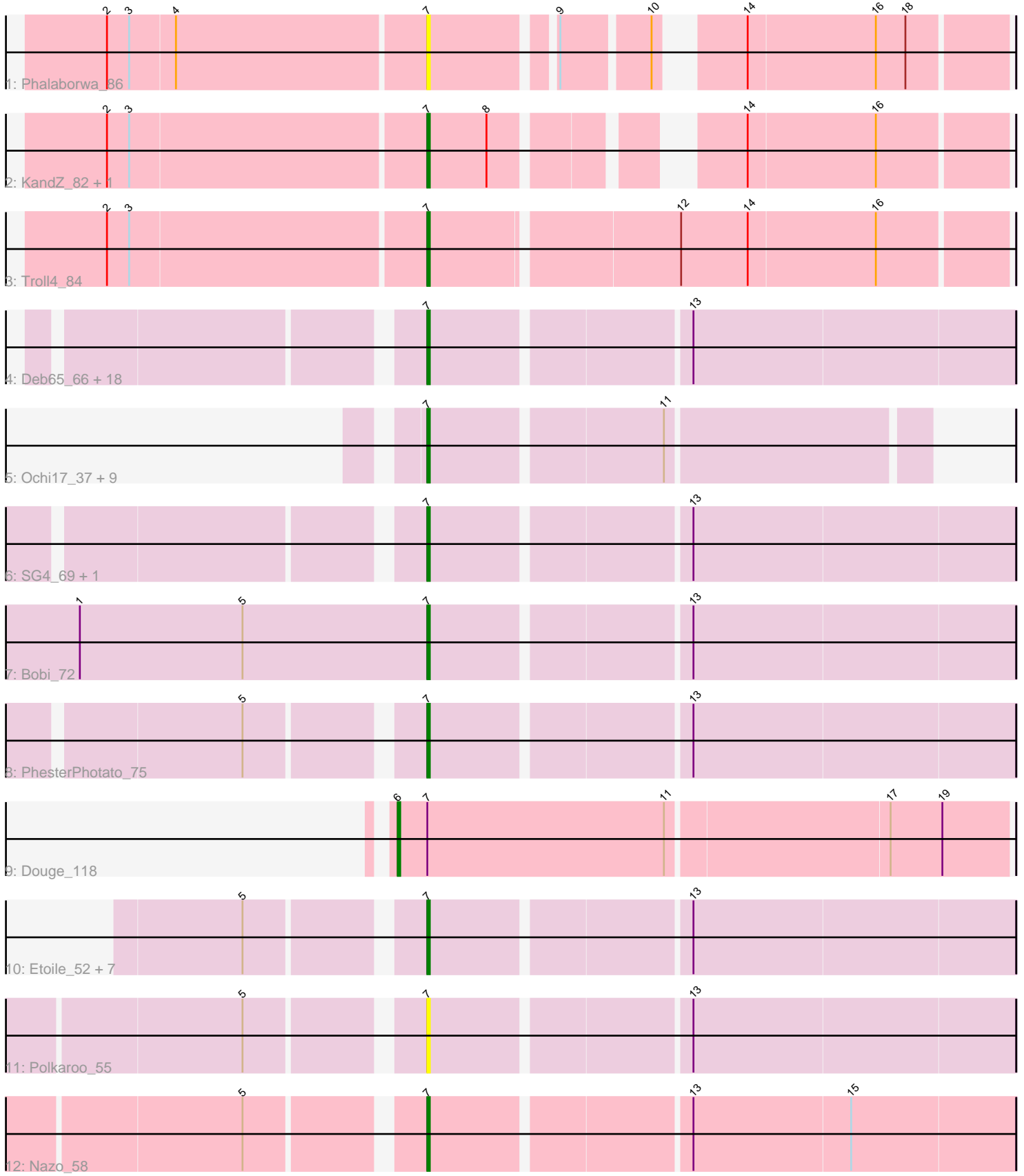


Pham 294840



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 294840 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294840 has 48 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Phalaborwa\_86
- Track 2 : KandZ\_82, Helpful\_87
- Track 3 : Troll4\_84
- Track 4 : Deb65\_66, Poenanya\_76, Scottish\_71, Daenerys\_72, Inventum\_71, JoeyJr\_73, RitaG\_73, OldBen\_70, Dorothy\_74, Doomphist\_76, Sassafras\_74, Polka14\_77, Leperchaun\_71, KingMidas\_72, RedBird\_74, Empress\_71, Nimbo\_65, Geralt\_66, PHappiness\_73
- Track 5 : Ochi17\_37, Jinglebell\_38, Modragons\_38, OfUltron\_39, Seabastian\_39, Llama\_39, Oksu\_39, Yoshi\_44, AlpineSix\_39, Nichirin\_39
- Track 6 : SG4\_69, Hegedechwinu\_72
- Track 7 : Bobi\_72
- Track 8 : PhesterPhotato\_75
- Track 9 : Douge\_118
- Track 10 : Etoile\_52, Langerak\_53, Fishburne\_52, Chubbello\_52, Kari\_52, FirstPlacePfu\_54, Venti\_53, Bartholomew\_52
- Track 11 : Polkaroo\_55
- Track 12 : Nazo\_58

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

The start number called the most often in the published annotations is 7, it was called in 42 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix\_39, Bartholomew\_52, Bobi\_72, Chubbello\_52, Daenerys\_72, Deb65\_66, Doomphist\_76, Dorothy\_74, Empress\_71, Etoile\_52, FirstPlacePfu\_54, Fishburne\_52, Geralt\_66, Hegedechwinu\_72, Helpful\_87, Inventum\_71, Jinglebell\_38, JoeyJr\_73, KandZ\_82, Kari\_52, KingMidas\_72, Langerak\_53, Leperchaun\_71, Llama\_39, Modragons\_38, Nazo\_58, Nichirin\_39, Nimbo\_65, Ochi17\_37, OfUltron\_39, Oksu\_39, OldBen\_70, PHappiness\_73, Phalaborwa\_86, PhesterPhotato\_75, Poenanya\_76, Polka14\_77, Polkaroo\_55, RedBird\_74, RitaG\_73, SG4\_69, Sassafras\_74, Scottish\_71, Seabastian\_39, Troll4\_84, Venti\_53, Yoshi\_44,

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

- Douge\_118,

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

- 

### Summary by start number:

Start 6:

- Found in 1 of 48 ( 2.1% ) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Douge\_118 (L4),

Start 7:

- Found in 48 of 48 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 42 of 43
- Called 97.9% of time when present
- Phage (with cluster) where this start called: AlpineSix\_39 (F1), Bartholomew\_52 (P1), Bobi\_72 (F1), Chubbello\_52 (P1), Daenerys\_72 (F1), Deb65\_66 (F1), Doomphist\_76 (F1), Dorothy\_74 (F1), Empress\_71 (F1), Etoile\_52 (P1), FirstPlacePfu\_54 (P1), Fishburne\_52 (P1), Geralt\_66 (F1), Hegedechwinu\_72 (F1), Helpful\_87 (D1), Inventum\_71 (F1), Jinglebell\_38 (F1), JoeyJr\_73 (F1), KandZ\_82 (D1), Kari\_52 (P1), KingMidas\_72 (F1), Langerak\_53 (P1), Leperchaun\_71 (F1), Llama\_39 (F1), Modragons\_38 (F1), Nazo\_58 (P4), Nichirin\_39 (F1), Nimbo\_65 (F1), Ochi17\_37 (F1), OfUltron\_39 (F1), Oksu\_39 (F1), OldBen\_70 (F1), PHappiness\_73 (F1), Phalaborwa\_86 (D1), PhesterPhotato\_75 (F1), Poenanya\_76 (F1), Polka14\_77 (F1), Polkaroo\_55 (P1), RedBird\_74 (F1), RitaG\_73 (F1), SG4\_69 (F1), Sassafras\_74 (F1), Scottish\_71 (F1), Seabastian\_39 (F1), Troll4\_84 (D1), Venti\_53 (P1), Yoshi\_44 (F2),

### Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, P1, P4, L4, D1,

Info for manual annotations of cluster D1:

- Start number 7 was manually annotated 3 times for cluster D1.

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 30 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 7 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster L4:

- Start number 6 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster P1:

- Start number 7 was manually annotated 7 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 7 was manually annotated 1 time for cluster P4.

**Gene Information:**

Gene: AlpineSix\_39 Start: 31200, Stop: 31009, Start Num: 7

Candidate Starts for AlpineSix\_39:

(Start: 7 @31200 has 42 MA's), (11, 31110),

Gene: Bartholomew\_52 Start: 36036, Stop: 36263, Start Num: 7

Candidate Starts for Bartholomew\_52:

(5, 35973), (Start: 7 @36036 has 42 MA's), (13, 36135),

Gene: Bobi\_72 Start: 44458, Stop: 44685, Start Num: 7

Candidate Starts for Bobi\_72:

(1, 44317), (5, 44383), (Start: 7 @44458 has 42 MA's), (13, 44557),

Gene: Chubbello\_52 Start: 36032, Stop: 36259, Start Num: 7

Candidate Starts for Chubbello\_52:

(5, 35969), (Start: 7 @36032 has 42 MA's), (13, 36131),

Gene: Daenerys\_72 Start: 47067, Stop: 47294, Start Num: 7

Candidate Starts for Daenerys\_72:

(Start: 7 @47067 has 42 MA's), (13, 47166),

Gene: Deb65\_66 Start: 44788, Stop: 45015, Start Num: 7

Candidate Starts for Deb65\_66:

(Start: 7 @44788 has 42 MA's), (13, 44887),

Gene: Doomphist\_76 Start: 46880, Stop: 47107, Start Num: 7

Candidate Starts for Doomphist\_76:

(Start: 7 @46880 has 42 MA's), (13, 46979),

Gene: Dorothy\_74 Start: 45505, Stop: 45732, Start Num: 7

Candidate Starts for Dorothy\_74:

(Start: 7 @45505 has 42 MA's), (13, 45604),

Gene: Douge\_118 Start: 64670, Stop: 64912, Start Num: 6

Candidate Starts for Douge\_118:

(Start: 6 @64670 has 1 MA's), (Start: 7 @64682 has 42 MA's), (11, 64778), (17, 64865), (19, 64886),

Gene: Empress\_71 Start: 45691, Stop: 45918, Start Num: 7

Candidate Starts for Empress\_71:

(Start: 7 @45691 has 42 MA's), (13, 45790),

Gene: Etoile\_52 Start: 36036, Stop: 36263, Start Num: 7

Candidate Starts for Etoile\_52:

(5, 35973), (Start: 7 @36036 has 42 MA's), (13, 36135),

Gene: FirstPlacePfu\_54 Start: 36068, Stop: 36295, Start Num: 7

Candidate Starts for FirstPlacePfu\_54:

(5, 36005), (Start: 7 @36068 has 42 MA's), (13, 36167),

Gene: Fishburne\_52 Start: 36036, Stop: 36263, Start Num: 7

Candidate Starts for Fishburne\_52:  
(5, 35973), (Start: 7 @36036 has 42 MA's), (13, 36135),

Gene: Geralt\_66 Start: 44787, Stop: 45014, Start Num: 7  
Candidate Starts for Geralt\_66:  
(Start: 7 @44787 has 42 MA's), (13, 44886),

Gene: Hegedechwinu\_72 Start: 43105, Stop: 43332, Start Num: 7  
Candidate Starts for Hegedechwinu\_72:  
(Start: 7 @43105 has 42 MA's), (13, 43204),

Gene: Helpful\_87 Start: 60143, Stop: 60346, Start Num: 7  
Candidate Starts for Helpful\_87:  
(2, 60017), (3, 60026), (Start: 7 @60143 has 42 MA's), (8, 60167), (14, 60245), (16, 60296),

Gene: Inventum\_71 Start: 45703, Stop: 45930, Start Num: 7  
Candidate Starts for Inventum\_71:  
(Start: 7 @45703 has 42 MA's), (13, 45802),

Gene: Jinglebell\_38 Start: 31199, Stop: 31008, Start Num: 7  
Candidate Starts for Jinglebell\_38:  
(Start: 7 @31199 has 42 MA's), (11, 31109),

Gene: JoeyJr\_73 Start: 46692, Stop: 46919, Start Num: 7  
Candidate Starts for JoeyJr\_73:  
(Start: 7 @46692 has 42 MA's), (13, 46791),

Gene: KandZ\_82 Start: 59971, Stop: 60174, Start Num: 7  
Candidate Starts for KandZ\_82:  
(2, 59845), (3, 59854), (Start: 7 @59971 has 42 MA's), (8, 59995), (14, 60073), (16, 60124),

Gene: Kari\_52 Start: 36033, Stop: 36260, Start Num: 7  
Candidate Starts for Kari\_52:  
(5, 35970), (Start: 7 @36033 has 42 MA's), (13, 36132),

Gene: KingMidas\_72 Start: 46106, Stop: 46333, Start Num: 7  
Candidate Starts for KingMidas\_72:  
(Start: 7 @46106 has 42 MA's), (13, 46205),

Gene: Langerak\_53 Start: 36052, Stop: 36279, Start Num: 7  
Candidate Starts for Langerak\_53:  
(5, 35989), (Start: 7 @36052 has 42 MA's), (13, 36151),

Gene: Leperchaun\_71 Start: 45926, Stop: 46153, Start Num: 7  
Candidate Starts for Leperchaun\_71:  
(Start: 7 @45926 has 42 MA's), (13, 46025),

Gene: Llama\_39 Start: 31198, Stop: 31007, Start Num: 7  
Candidate Starts for Llama\_39:  
(Start: 7 @31198 has 42 MA's), (11, 31108),

Gene: Modragons\_38 Start: 31043, Stop: 30852, Start Num: 7  
Candidate Starts for Modragons\_38:

(Start: 7 @31043 has 42 MA's), (11, 30953),

Gene: Nazo\_58 Start: 40075, Stop: 40302, Start Num: 7

Candidate Starts for Nazo\_58:

(5, 40012), (Start: 7 @40075 has 42 MA's), (13, 40174), (15, 40237),

Gene: Nichirin\_39 Start: 31227, Stop: 31036, Start Num: 7

Candidate Starts for Nichirin\_39:

(Start: 7 @31227 has 42 MA's), (11, 31137),

Gene: Nimbo\_65 Start: 44790, Stop: 45017, Start Num: 7

Candidate Starts for Nimbo\_65:

(Start: 7 @44790 has 42 MA's), (13, 44889),

Gene: Ochi17\_37 Start: 30650, Stop: 30459, Start Num: 7

Candidate Starts for Ochi17\_37:

(Start: 7 @30650 has 42 MA's), (11, 30560),

Gene: OfUltron\_39 Start: 31199, Stop: 31008, Start Num: 7

Candidate Starts for OfUltron\_39:

(Start: 7 @31199 has 42 MA's), (11, 31109),

Gene: Oksu\_39 Start: 31043, Stop: 30852, Start Num: 7

Candidate Starts for Oksu\_39:

(Start: 7 @31043 has 42 MA's), (11, 30953),

Gene: OldBen\_70 Start: 46182, Stop: 46409, Start Num: 7

Candidate Starts for OldBen\_70:

(Start: 7 @46182 has 42 MA's), (13, 46281),

Gene: PHappiness\_73 Start: 47011, Stop: 47238, Start Num: 7

Candidate Starts for PHappiness\_73:

(Start: 7 @47011 has 42 MA's), (13, 47110),

Gene: Phalaborwa\_86 Start: 60456, Stop: 60659, Start Num: 7

Candidate Starts for Phalaborwa\_86:

(2, 60330), (3, 60339), (4, 60357), (Start: 7 @60456 has 42 MA's), (9, 60501), (10, 60534), (14, 60558), (16, 60609), (18, 60621),

Gene: PhesterPotato\_75 Start: 45749, Stop: 45976, Start Num: 7

Candidate Starts for PhesterPotato\_75:

(5, 45686), (Start: 7 @45749 has 42 MA's), (13, 45848),

Gene: Poenanya\_76 Start: 46880, Stop: 47107, Start Num: 7

Candidate Starts for Poenanya\_76:

(Start: 7 @46880 has 42 MA's), (13, 46979),

Gene: Polka14\_77 Start: 47670, Stop: 47897, Start Num: 7

Candidate Starts for Polka14\_77:

(Start: 7 @47670 has 42 MA's), (13, 47769),

Gene: Polkaroo\_55 Start: 37375, Stop: 37602, Start Num: 7

Candidate Starts for Polkaroo\_55:

(5, 37312), (Start: 7 @37375 has 42 MA's), (13, 37474),

Gene: RedBird\_74 Start: 45372, Stop: 45599, Start Num: 7

Candidate Starts for RedBird\_74:

(Start: 7 @45372 has 42 MA's), (13, 45471),

Gene: RitaG\_73 Start: 46813, Stop: 47040, Start Num: 7

Candidate Starts for RitaG\_73:

(Start: 7 @46813 has 42 MA's), (13, 46912),

Gene: SG4\_69 Start: 43478, Stop: 43705, Start Num: 7

Candidate Starts for SG4\_69:

(Start: 7 @43478 has 42 MA's), (13, 43577),

Gene: Sassafras\_74 Start: 45702, Stop: 45929, Start Num: 7

Candidate Starts for Sassafras\_74:

(Start: 7 @45702 has 42 MA's), (13, 45801),

Gene: Scottish\_71 Start: 45361, Stop: 45588, Start Num: 7

Candidate Starts for Scottish\_71:

(Start: 7 @45361 has 42 MA's), (13, 45460),

Gene: Seabastian\_39 Start: 31199, Stop: 31008, Start Num: 7

Candidate Starts for Seabastian\_39:

(Start: 7 @31199 has 42 MA's), (11, 31109),

Gene: Troll4\_84 Start: 59937, Stop: 60161, Start Num: 7

Candidate Starts for Troll4\_84:

(2, 59811), (3, 59820), (Start: 7 @59937 has 42 MA's), (12, 60033), (14, 60060), (16, 60111),

Gene: Venti\_53 Start: 36036, Stop: 36263, Start Num: 7

Candidate Starts for Venti\_53:

(5, 35973), (Start: 7 @36036 has 42 MA's), (13, 36135),

Gene: Yoshi\_44 Start: 30151, Stop: 29960, Start Num: 7

Candidate Starts for Yoshi\_44:

(Start: 7 @30151 has 42 MA's), (11, 30061),