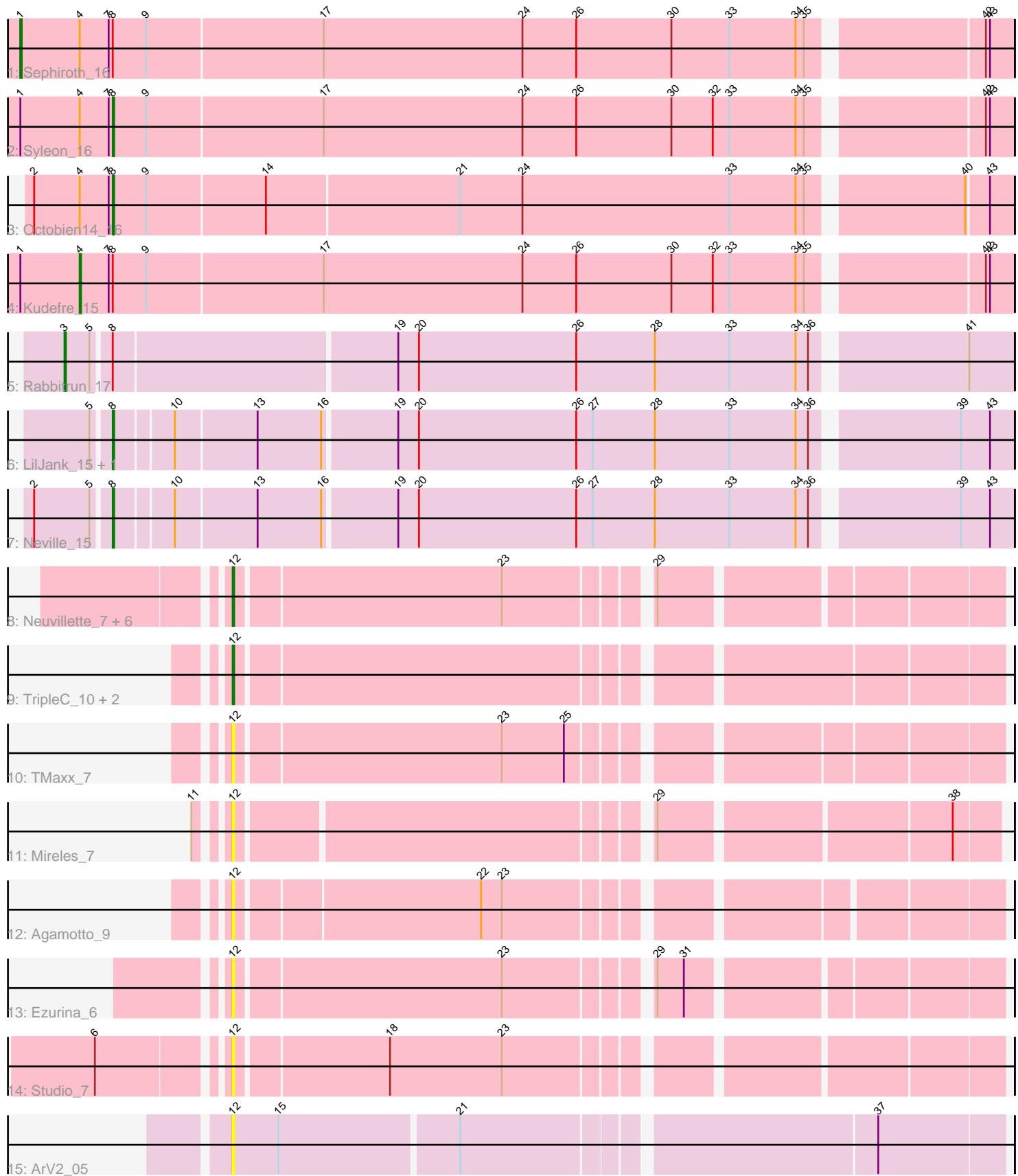# Pham 280817

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 280817 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280817 has 24 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Sephiroth_16
• Track 2 : Syleon_16
• Track 3 : Octobien14_16
• Track 4 : Kudefre_15
• Track 5 : Rabbitrun_17
• Track 6 : LilJank_15, Trax_15
• Track 7 : Neville_15
• Track 8 : Neuvillette_7, AnnabelLee_7, ChamoyPickle_7, CardboardBox_7, Roberts_7, Gerri43_7, ChipsNGuac_7
• Track 9 : TripleC_10, LastNadiia_10, Audell_10
• Track 10 : TMaxx_7
• Track 11 : Mireles_7
• Track 12 : Agamotto_9
• Track 13 : Ezurina_6
• Track 14 : Studio_7
• Track 15 : ArV2_05

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

The start number called the most often in the published annotations is 8, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• LilJank_15, Neville_15, Octobien14_16, Syleon_16, Trax_15,

Genes that have the "Most Annotated" start but do not call it:
• Kudefre_15, Rabbitrun_17, Sephiroth_16,

Genes that do not have the "Most Annotated" start:
• Agamotto_9, AnnabelLee_7, ArV2_05, Audell_10, CardboardBox_7, ChamoyPickle_7, ChipsNGuac_7, Ezurina_6, Gerri43_7, LastNadiia_10, Mireles_7, Neuvillette_7, Roberts_7, Studio_7, TMaxx_7, TripleC_10,

Summary by start number:

Start 1:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Sephiroth_16 (DU1),

Start 3:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rabbitrun_17 (DU2),

Start 4:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Kudefre_15 (DU1),

Start 8:
• Found in 8 of 24 (33.3%) of genes in pham
• Manual Annotations of this start: 4 of 9
• Called 62.5% of time when present
• Phage (with cluster) where this start called: LilJank_15 (DU2), Neville_15 (DU2), Octobien14_16 (DU1), Syleon_16 (DU1), Trax_15 (DU2),

Start 12:
• Found in 16 of 24 (66.7%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_9 (FR), AnnabelLee_7 (FR), ArV2_05 (singleton), Audell_10 (FR), CardboardBox_7 (FR), ChamoyPickle_7 (FR), ChipsNGuac_7 (FR), Ezurina_6 (FR), Gerri43_7 (FR), LastNadiia_10 (FR), Mireles_7 (FR), Neuvillette_7 (FR), Roberts_7 (FR), Studio_7 (FR), TMaxx_7 (FR), TripleC_10 (FR),

Summary by clusters:

There are 4 clusters represented in this pham: DU1, DU2, FR, singleton,

Info for manual annotations of cluster DU1:
•Start number 1 was manually annotated 1 time for cluster DU1.
•Start number 4 was manually annotated 1 time for cluster DU1.
•Start number 8 was manually annotated 2 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 3 was manually annotated 1 time for cluster DU2.
•Start number 8 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster FR:
•Start number 12 was manually annotated 2 times for cluster FR.

Gene Information:

Gene: Agamotto_9 Start: 8117, Stop: 8620, Start Num: 12
Candidate Starts for Agamotto_9:
(Start: 12 @8117 has 2 MA's), (22, 8285), (23, 8300),

Gene: AnnabelLee_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for AnnabelLee_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: ArV2_05 Start: 4203, Stop: 4730, Start Num: 12
Candidate Starts for ArV2_05:
(Start: 12 @4203 has 2 MA's), (15, 4236), (21, 4362), (37, 4641),

Gene: Audell_10 Start: 8386, Stop: 8895, Start Num: 12
Candidate Starts for Audell_10:
(Start: 12 @8386 has 2 MA's),

Gene: CardboardBox_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for CardboardBox_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: ChamoyPickle_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for ChamoyPickle_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: ChipsNGuac_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for ChipsNGuac_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: Ezurina_6 Start: 4583, Stop: 5089, Start Num: 12
Candidate Starts for Ezurina_6:
(Start: 12 @4583 has 2 MA's), (23, 4769), (29, 4862), (31, 4880),

Gene: Gerri43_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for Gerri43_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: Kudefre_15 Start: 8967, Stop: 9623, Start Num: 4
Candidate Starts for Kudefre_15:
(Start: 1 @8925 has 1 MA's), (Start: 4 @8967 has 1 MA's), (7, 8988), (Start: 8 @8991 has 4 MA's), (9, 9015), (17, 9141), (24, 9285), (26, 9324), (30, 9393), (32, 9423), (33, 9435), (34, 9483), (35, 9489), (42, 9603), (43, 9606),

Gene: LastNadiia_10 Start: 7336, Stop: 7845, Start Num: 12
Candidate Starts for LastNadiia_10:
(Start: 12 @7336 has 2 MA's),

Gene: LilJank_15 Start: 8880, Stop: 9503, Start Num: 8
Candidate Starts for LilJank_15:
(5, 8868), (Start: 8 @8880 has 4 MA's), (10, 8919), (13, 8976), (16, 9021), (19, 9072), (20, 9087), (26, 9201), (27, 9213), (28, 9258), (33, 9312), (34, 9360), (36, 9369), (39, 9465), (43, 9486),

Gene: Mireles_7 Start: 4860, Stop: 5363, Start Num: 12
Candidate Starts for Mireles_7:
(11, 4845), (Start: 12 @4860 has 2 MA's), (29, 5136), (38, 5331),

Gene: Neuvillette_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for Neuvillette_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: Neville_15 Start: 8829, Stop: 9452, Start Num: 8
Candidate Starts for Neville_15:
(2, 8778), (5, 8817), (Start: 8 @8829 has 4 MA's), (10, 8868), (13, 8925), (16, 8970), (19, 9021), (20, 9036), (26, 9150), (27, 9162), (28, 9207), (33, 9261), (34, 9309), (36, 9318), (39, 9414), (43, 9435),

Gene: Octobien14_16 Start: 10060, Stop: 10689, Start Num: 8
Candidate Starts for Octobien14_16:
(2, 10003), (Start: 4 @10036 has 1 MA's), (7, 10057), (Start: 8 @10060 has 4 MA's), (9, 10084), (14, 10168), (21, 10306), (24, 10351), (33, 10501), (34, 10549), (35, 10555), (40, 10657), (43, 10672),

Gene: Rabbitrun_17 Start: 9317, Stop: 9976, Start Num: 3
Candidate Starts for Rabbitrun_17:
(Start: 3 @9317 has 1 MA's), (5, 9335), (Start: 8 @9347 has 4 MA's), (19, 9545), (20, 9560), (26, 9674), (28, 9731), (33, 9785), (34, 9833), (36, 9842), (41, 9944),

Gene: Roberts_7 Start: 4967, Stop: 5473, Start Num: 12
Candidate Starts for Roberts_7:
(Start: 12 @4967 has 2 MA's), (23, 5153), (29, 5246),

Gene: Sephiroth_16 Start: 9096, Stop: 9794, Start Num: 1
Candidate Starts for Sephiroth_16:
(Start: 1 @9096 has 1 MA's), (Start: 4 @9138 has 1 MA's), (7, 9159), (Start: 8 @9162 has 4 MA's), (9, 9186), (17, 9312), (24, 9456), (26, 9495), (30, 9564), (33, 9606), (34, 9654), (35, 9660), (42, 9774), (43, 9777),

Gene: Studio_7 Start: 4771, Stop: 5280, Start Num: 12
Candidate Starts for Studio_7:
(6, 4687), (Start: 12 @4771 has 2 MA's), (18, 4876), (23, 4957),

Gene: Syleon_16 Start: 9084, Stop: 9716, Start Num: 8
Candidate Starts for Syleon_16:
(Start: 1 @9018 has 1 MA's), (Start: 4 @9060 has 1 MA's), (7, 9081), (Start: 8 @9084 has 4 MA's), (9, 9108), (17, 9234), (24, 9378), (26, 9417), (30, 9486), (32, 9516), (33, 9528), (34, 9576), (35, 9582), (42, 9696), (43, 9699),

Gene: TMaxx_7 Start: 4931, Stop: 5440, Start Num: 12
Candidate Starts for TMaxx_7:
(Start: 12 @4931 has 2 MA's), (23, 5117), (25, 5162),

Gene: Trax_15 Start: 8829, Stop: 9452, Start Num: 8
Candidate Starts for Trax_15:
(5, 8817), (Start: 8 @8829 has 4 MA's), (10, 8868), (13, 8925), (16, 8970), (19, 9021), (20, 9036), (26, 9150), (27, 9162), (28, 9207), (33, 9261), (34, 9309), (36, 9318), (39, 9414), (43, 9435),

Gene: TripleC_10 Start: 8397, Stop: 8909, Start Num: 12

Candidate Starts for TripleC_10:
(Start: 12 @8397 has 2 MA's),