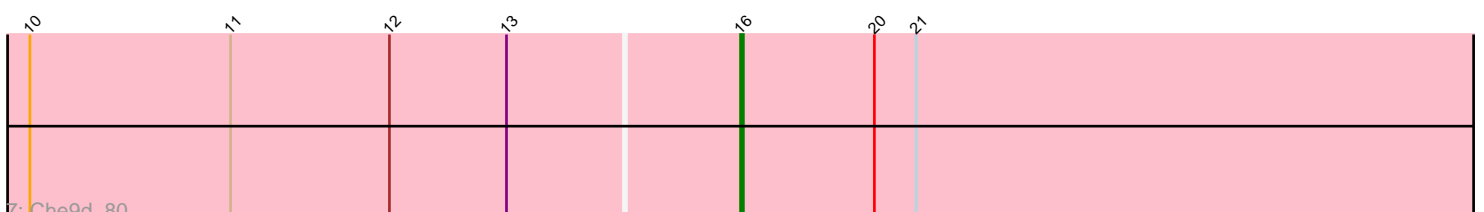
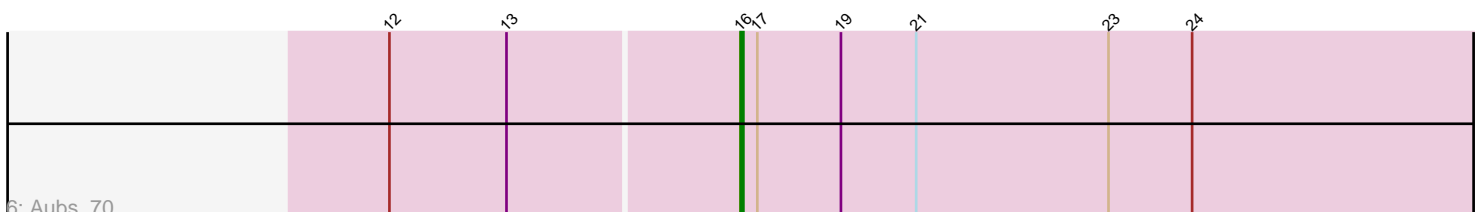
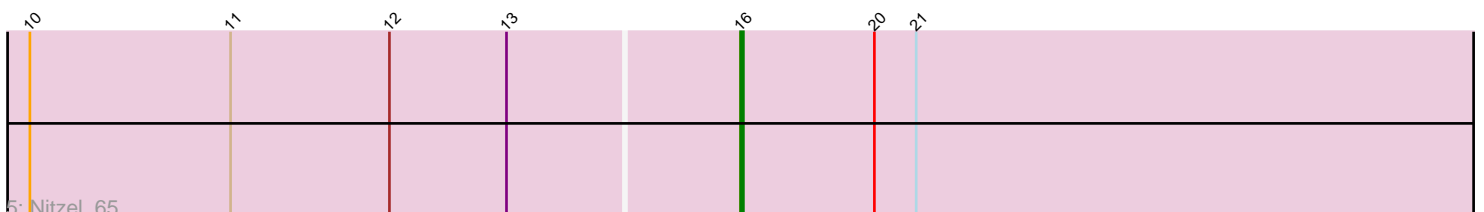
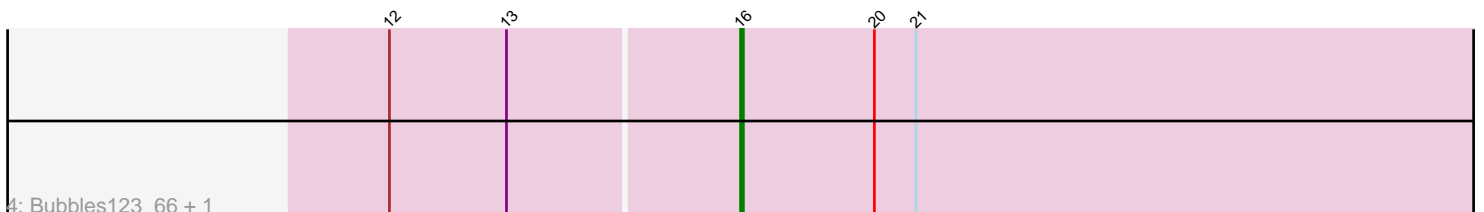
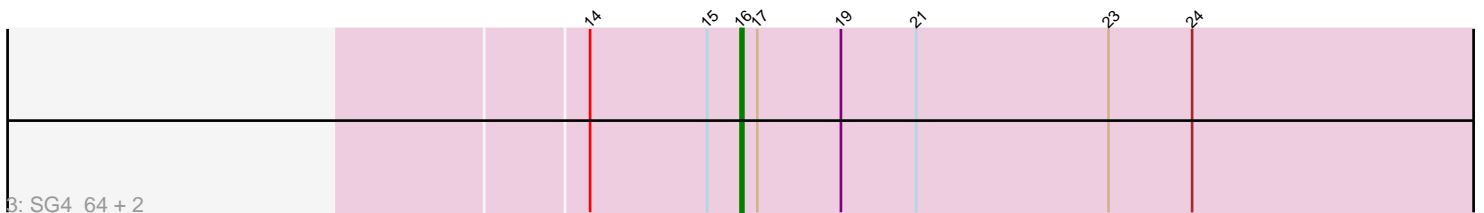
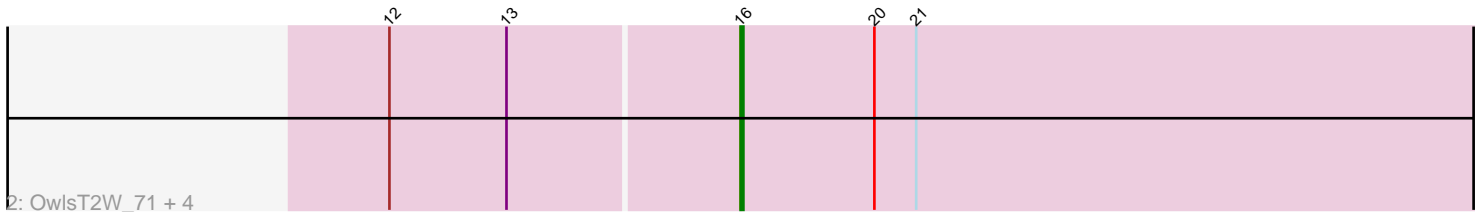
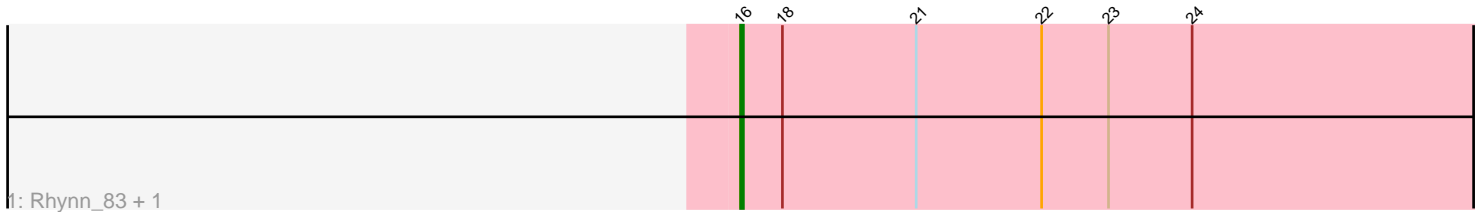


# Zoomed Pham 214754



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 214754 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214754 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Rhynn\_83, KBG\_84
- Track 2 : OwlsT2W\_71, Rialto\_76, Hades\_69, Royals2015\_75, Zerg\_69
- Track 3 : SG4\_64, NewHope4\_69, ShroomBoi\_71
- Track 4 : Bubbles123\_66, Spikelee\_77
- Track 5 : Nitzel\_65
- Track 6 : Aubs\_70
- Track 7 : Che9d\_80

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

The start number called the most often in the published annotations is 16, it was called in 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aubs\_70, Bubbles123\_66, Che9d\_80, Hades\_69, KBG\_84, NewHope4\_69, Nitzel\_65, OwlsT2W\_71, Rhynn\_83, Rialto\_76, Royals2015\_75, SG4\_64, ShroomBoi\_71, Spikelee\_77, Zerg\_69,

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

- 

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

- 

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

Start 16:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aubs\_70 (F1), Bubbles123\_66 (F1), Che9d\_80 (F2), Hades\_69 (F1), KBG\_84 (A1), NewHope4\_69 (F1), Nitzel\_65 (F1), OwlsT2W\_71 (F1), Rhynn\_83 (A1), Rialto\_76 (F1), Royals2015\_75 (F1), SG4\_64 (F1), ShroomBoi\_71 (F1), Spikelee\_77 (F1), Zerg\_69 (F1),

## Summary by clusters:

There are 3 clusters represented in this pham: A1, F1, F2,

Info for manual annotations of cluster A1:

- Start number 16 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 16 was manually annotated 11 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 16 was manually annotated 1 time for cluster F2.

## Gene Information:

Gene: Aubs\_70 Start: 45656, Stop: 46414, Start Num: 16

Candidate Starts for Aubs\_70:

(12, 45533), (13, 45575), (Start: 16 @45656 has 14 MA's), (17, 45662), (19, 45692), (21, 45719), (23, 45788), (24, 45818), (26, 45947), (29, 46076), (30, 46094), (33, 46196), (34, 46289), (35, 46298), (39, 46391),

Gene: Bubbles123\_66 Start: 44845, Stop: 45603, Start Num: 16

Candidate Starts for Bubbles123\_66:

(12, 44722), (13, 44764), (Start: 16 @44845 has 14 MA's), (20, 44893), (21, 44908), (26, 45136), (29, 45265), (30, 45283), (33, 45385), (34, 45478), (35, 45487), (39, 45580),

Gene: Che9d\_80 Start: 45002, Stop: 45760, Start Num: 16

Candidate Starts for Che9d\_80:

(10, 44750), (11, 44822), (12, 44879), (13, 44921), (Start: 16 @45002 has 14 MA's), (20, 45050), (21, 45065), (26, 45293), (29, 45422), (30, 45440), (33, 45542), (34, 45635), (35, 45644), (39, 45737),

Gene: Hades\_69 Start: 43298, Stop: 44011, Start Num: 16

Candidate Starts for Hades\_69:

(12, 43175), (13, 43217), (Start: 16 @43298 has 14 MA's), (20, 43346), (21, 43361), (25, 43574), (26, 43586), (27, 43607), (28, 43676), (30, 43739), (31, 43766), (32, 43775), (34, 43886), (35, 43895), (36, 43919), (37, 43922), (39, 43988),

Gene: KBG\_84 Start: 51007, Stop: 50294, Start Num: 16

Candidate Starts for KBG\_84:

(Start: 16 @51007 has 14 MA's), (18, 50992), (21, 50944), (22, 50899), (23, 50875), (24, 50845), (26, 50719), (29, 50584), (30, 50566), (35, 50416), (36, 50392), (38, 50359), (40, 50320),

Gene: NewHope4\_69 Start: 43073, Stop: 43831, Start Num: 16

Candidate Starts for NewHope4\_69:

(14, 43019), (15, 43061), (Start: 16 @43073 has 14 MA's), (17, 43079), (19, 43109), (21, 43136), (23, 43205), (24, 43235), (26, 43364), (29, 43493), (30, 43511), (33, 43613), (34, 43706), (35, 43715), (39, 43808),

Gene: Nitzel\_65 Start: 42237, Stop: 42995, Start Num: 16

Candidate Starts for Nitzel\_65:

(1, 41544), (2, 41559), (3, 41571), (4, 41733), (5, 41799), (6, 41811), (7, 41880), (8, 41898), (9, 41910), (10, 41985), (11, 42057), (12, 42114), (13, 42156), (Start: 16 @42237 has 14 MA's), (20, 42285), (21, 42300), (26, 42528), (29, 42657), (30, 42675), (33, 42777), (34, 42870), (35, 42879), (39, 42972),

Gene: OwlsT2W\_71 Start: 45043, Stop: 45756, Start Num: 16

Candidate Starts for OwlsT2W\_71:

(12, 44920), (13, 44962), (Start: 16 @45043 has 14 MA's), (20, 45091), (21, 45106), (25, 45319), (26, 45331), (27, 45352), (28, 45421), (30, 45484), (31, 45511), (32, 45520), (34, 45631), (35, 45640), (36, 45664), (37, 45667), (39, 45733),

Gene: Rhynn\_83 Start: 50333, Stop: 49620, Start Num: 16

Candidate Starts for Rhynn\_83:

(Start: 16 @50333 has 14 MA's), (18, 50318), (21, 50270), (22, 50225), (23, 50201), (24, 50171), (26, 50045), (29, 49910), (30, 49892), (35, 49742), (36, 49718), (38, 49685), (40, 49646),

Gene: Rialto\_76 Start: 46410, Stop: 47123, Start Num: 16

Candidate Starts for Rialto\_76:

(12, 46287), (13, 46329), (Start: 16 @46410 has 14 MA's), (20, 46458), (21, 46473), (25, 46686), (26, 46698), (27, 46719), (28, 46788), (30, 46851), (31, 46878), (32, 46887), (34, 46998), (35, 47007), (36, 47031), (37, 47034), (39, 47100),

Gene: Royals2015\_75 Start: 45063, Stop: 45776, Start Num: 16

Candidate Starts for Royals2015\_75:

(12, 44940), (13, 44982), (Start: 16 @45063 has 14 MA's), (20, 45111), (21, 45126), (25, 45339), (26, 45351), (27, 45372), (28, 45441), (30, 45504), (31, 45531), (32, 45540), (34, 45651), (35, 45660), (36, 45684), (37, 45687), (39, 45753),

Gene: SG4\_64 Start: 41908, Stop: 42666, Start Num: 16

Candidate Starts for SG4\_64:

(14, 41854), (15, 41896), (Start: 16 @41908 has 14 MA's), (17, 41914), (19, 41944), (21, 41971), (23, 42040), (24, 42070), (26, 42199), (29, 42328), (30, 42346), (33, 42448), (34, 42541), (35, 42550), (39, 42643),

Gene: ShroomBoi\_71 Start: 45417, Stop: 46175, Start Num: 16

Candidate Starts for ShroomBoi\_71:

(14, 45363), (15, 45405), (Start: 16 @45417 has 14 MA's), (17, 45423), (19, 45453), (21, 45480), (23, 45549), (24, 45579), (26, 45708), (29, 45837), (30, 45855), (33, 45957), (34, 46050), (35, 46059), (39, 46152),

Gene: Spikelee\_77 Start: 47075, Stop: 47833, Start Num: 16

Candidate Starts for Spikelee\_77:

(12, 46952), (13, 46994), (Start: 16 @47075 has 14 MA's), (20, 47123), (21, 47138), (26, 47366), (29, 47495), (30, 47513), (33, 47615), (34, 47708), (35, 47717), (39, 47810),

Gene: Zerg\_69 Start: 44914, Stop: 45627, Start Num: 16

Candidate Starts for Zerg\_69:

(12, 44791), (13, 44833), (Start: 16 @44914 has 14 MA's), (20, 44962), (21, 44977), (25, 45190), (26, 45202), (27, 45223), (28, 45292), (30, 45355), (31, 45382), (32, 45391), (34, 45502), (35, 45511), (36, 45535), (37, 45538), (39, 45604),