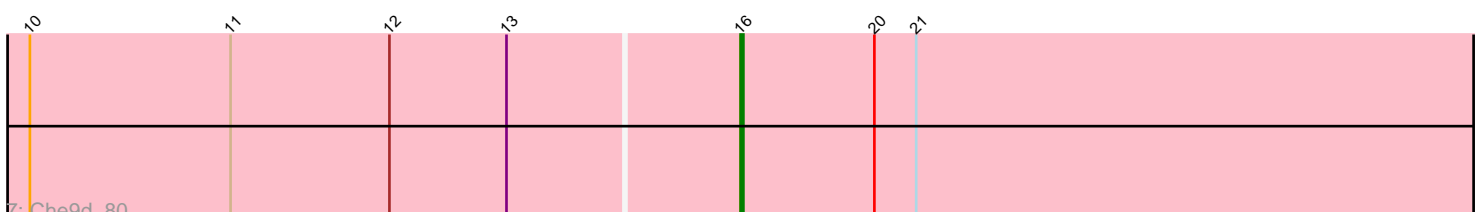
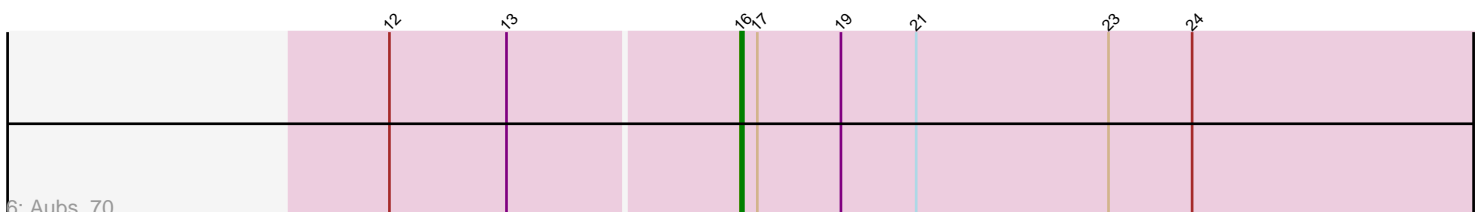
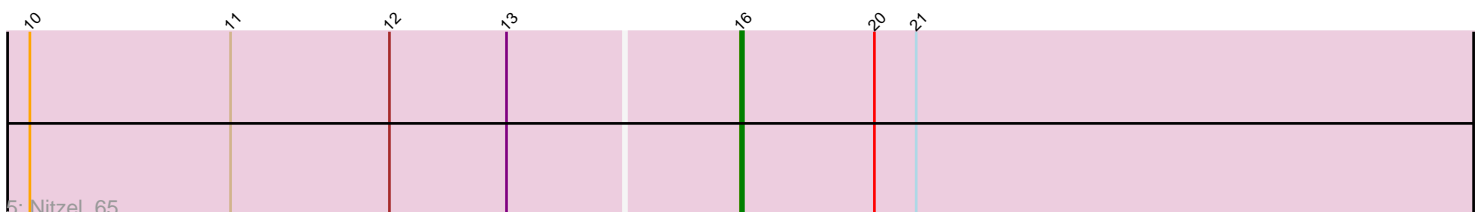
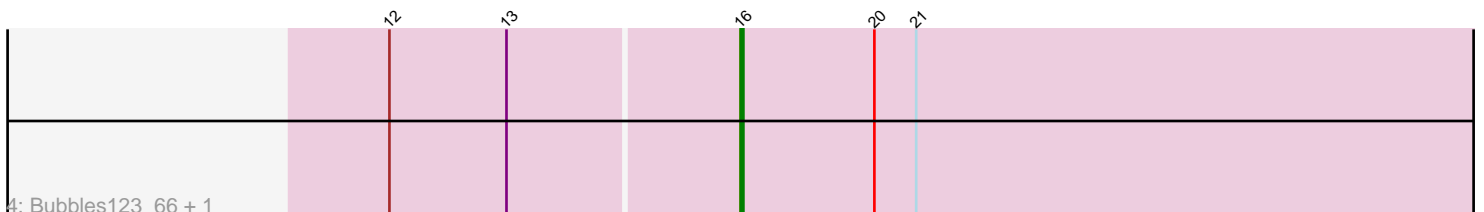
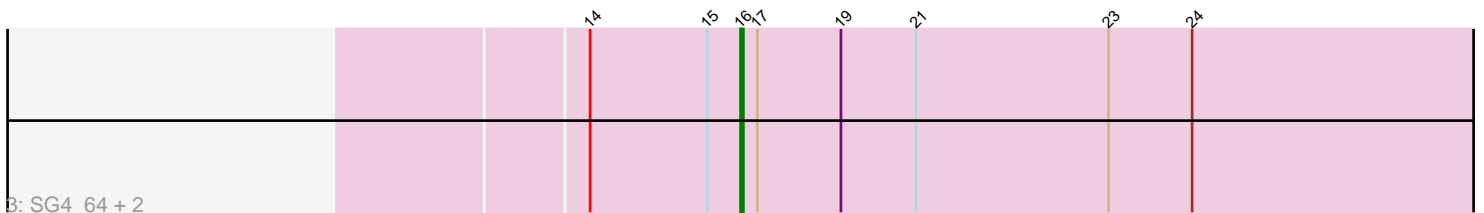
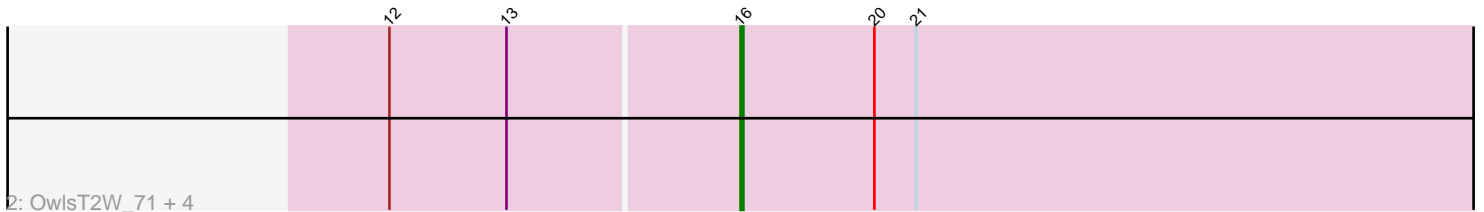
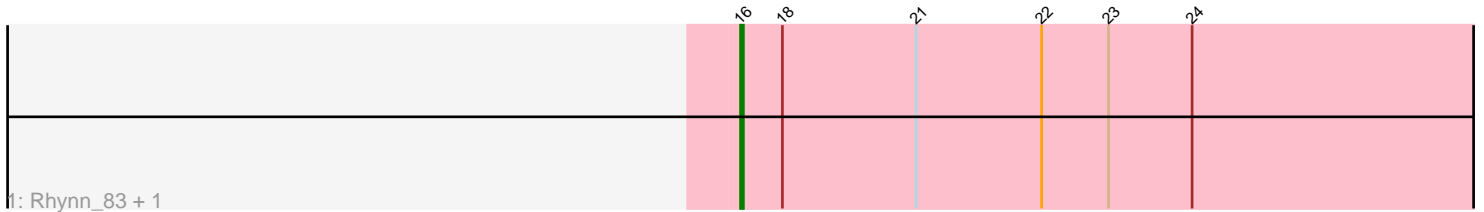


Zoomed Pham 221881



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 221881 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221881 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),