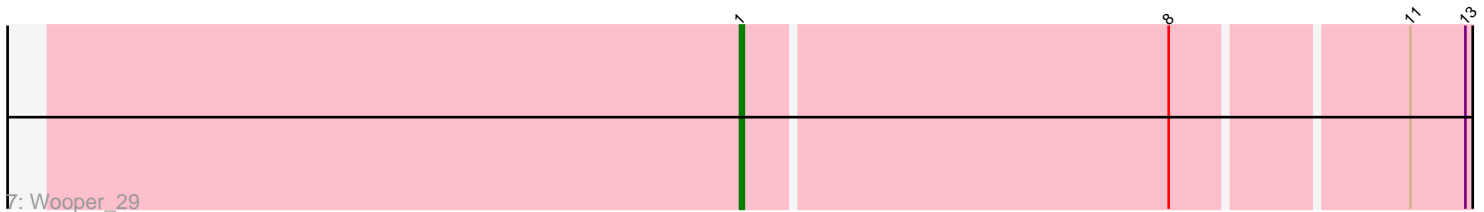
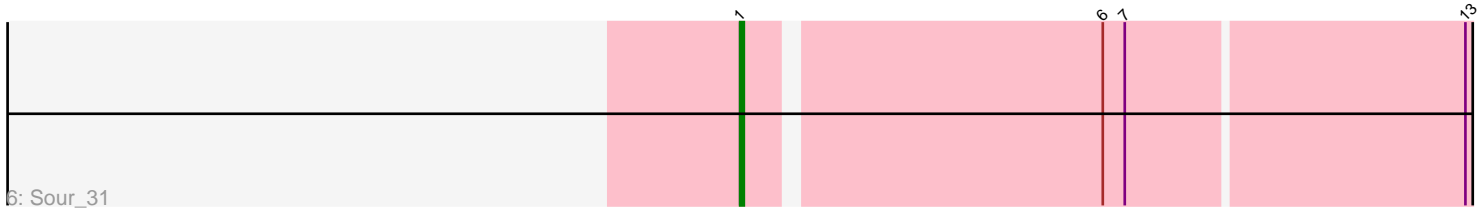
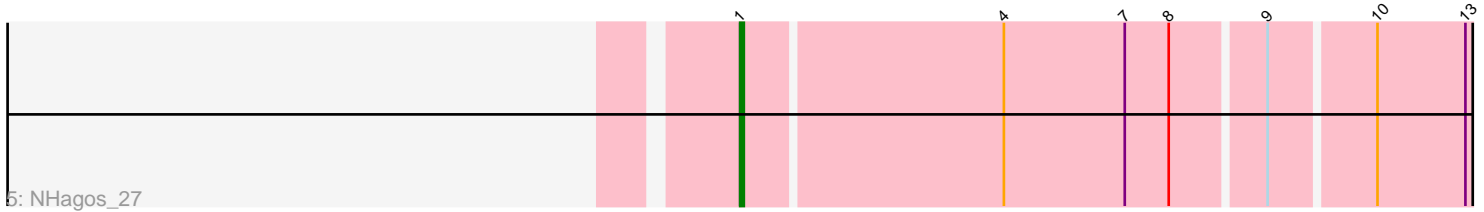
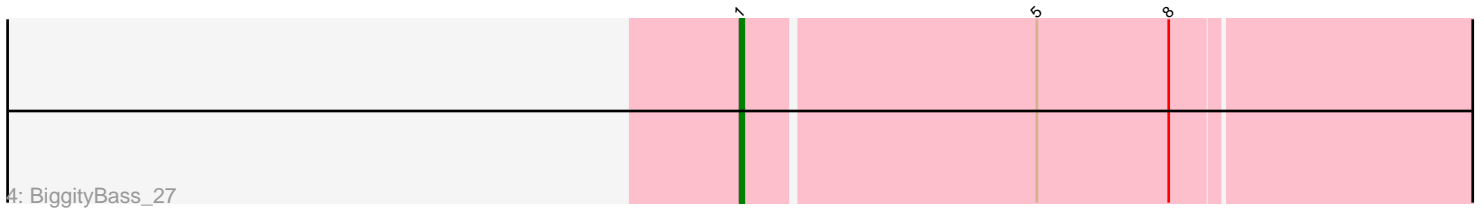
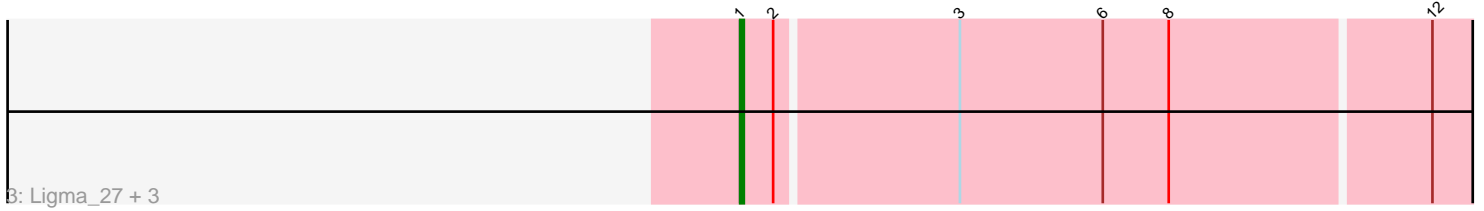
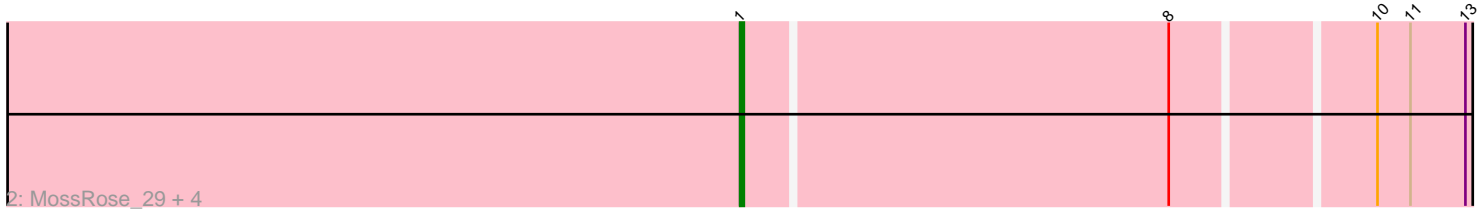
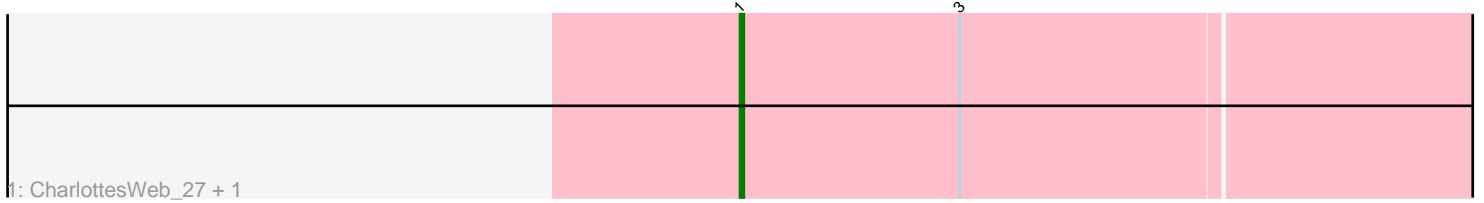


# Zoomed Pham 158254



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 158254 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158254 has 15 members, 4 are drafts.

Phages represented in each track:

- Track 1 : CharlottesWeb\_27, Mariokart\_27
- Track 2 : MossRose\_29, CloverMinnie\_29, MakoManhole\_29, AnarQue\_29, CaiB\_29
- Track 3 : Ligma\_27, Fresco\_27, Shatter\_27, Axumite\_27
- Track 4 : BiggityBass\_27
- Track 5 : NHagos\_27
- Track 6 : Sour\_31
- Track 7 : Wooper\_29

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnarQue\_29, Axumite\_27, BiggityBass\_27, CaiB\_29, CharlottesWeb\_27, CloverMinnie\_29, Fresco\_27, Ligma\_27, MakoManhole\_29, Mariokart\_27, MossRose\_29, NHagos\_27, Shatter\_27, Sour\_31, Wooper\_29,

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 1:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnarQue\_29 (DR), Axumite\_27 (DR), BiggityBass\_27 (DR), CaiB\_29 (DR), CharlottesWeb\_27 (DR), CloverMinnie\_29 (DR), Fresco\_27 (DR), Ligma\_27 (DR), MakoManhole\_29 (DR), Mariokart\_27 (DR),

MossRose\_29 (DR), NHagos\_27 (DR), Shatter\_27 (DR), Sour\_31 (DR), Wooper\_29 (DR),

### **Summary by clusters:**

There is one cluster represented in this pham: DR

Info for manual annotations of cluster DR:

•Start number 1 was manually annotated 11 times for cluster DR.

### **Gene Information:**

Gene: AnarQue\_29 Start: 28071, Stop: 29183, Start Num: 1

Candidate Starts for AnarQue\_29:

(Start: 1 @28071 has 11 MA's), (8, 28185), (10, 28236), (11, 28245), (13, 28260), (14, 28275), (17, 28341), (19, 28455), (20, 28476), (22, 28527), (26, 28566), (28, 28590), (32, 28650), (41, 28752), (44, 28788), (45, 28803), (51, 28914), (53, 28932), (57, 28968),

Gene: Axumite\_27 Start: 26078, Stop: 27217, Start Num: 1

Candidate Starts for Axumite\_27:

(Start: 1 @26078 has 11 MA's), (2, 26087), (3, 26135), (6, 26174), (8, 26192), (12, 26261), (15, 26330), (16, 26339), (19, 26465), (22, 26537), (24, 26564), (25, 26567), (29, 26639), (33, 26693), (34, 26756), (39, 26783), (41, 26789), (45, 26840), (49, 26930), (61, 27143), (64, 27200), (65, 27206), (66, 27209),

Gene: BiggityBass\_27 Start: 28347, Stop: 29480, Start Num: 1

Candidate Starts for BiggityBass\_27:

(Start: 1 @28347 has 11 MA's), (5, 28425), (8, 28461), (22, 28797), (23, 28809), (27, 28851), (33, 28959), (44, 29091), (45, 29106), (48, 29151), (54, 29250), (56, 29259), (64, 29466), (65, 29472),

Gene: CaiB\_29 Start: 28057, Stop: 29169, Start Num: 1

Candidate Starts for CaiB\_29:

(Start: 1 @28057 has 11 MA's), (8, 28171), (10, 28222), (11, 28231), (13, 28246), (14, 28261), (17, 28327), (19, 28441), (20, 28462), (22, 28513), (26, 28552), (28, 28576), (32, 28636), (41, 28738), (44, 28774), (45, 28789), (51, 28900), (53, 28918), (57, 28954),

Gene: CharlottesWeb\_27 Start: 26001, Stop: 27152, Start Num: 1

Candidate Starts for CharlottesWeb\_27:

(Start: 1 @26001 has 11 MA's), (3, 26061), (14, 26211), (15, 26256), (16, 26265), (17, 26277), (18, 26286), (19, 26391), (22, 26463), (31, 26610), (34, 26694), (35, 26697), (37, 26715), (39, 26721), (41, 26727), (43, 26754), (44, 26763), (45, 26778), (54, 26922), (55, 26925), (56, 26931), (61, 27081), (64, 27138), (65, 27144),

Gene: CloverMinnie\_29 Start: 27997, Stop: 29109, Start Num: 1

Candidate Starts for CloverMinnie\_29:

(Start: 1 @27997 has 11 MA's), (8, 28111), (10, 28162), (11, 28171), (13, 28186), (14, 28201), (17, 28267), (19, 28381), (20, 28402), (22, 28453), (26, 28492), (28, 28516), (32, 28576), (41, 28678), (44, 28714), (45, 28729), (51, 28840), (53, 28858), (57, 28894),

Gene: Fresco\_27 Start: 26078, Stop: 27217, Start Num: 1

Candidate Starts for Fresco\_27:

(Start: 1 @26078 has 11 MA's), (2, 26087), (3, 26135), (6, 26174), (8, 26192), (12, 26261), (15, 26330), (16, 26339), (19, 26465), (22, 26537), (24, 26564), (25, 26567), (29, 26639), (33, 26693), (34, 26756), (39, 26783), (41, 26789), (45, 26840), (49, 26930), (61, 27143), (64, 27200), (65, 27206), (66, 27209),

Gene: Ligma\_27 Start: 26078, Stop: 27217, Start Num: 1

Candidate Starts for Ligma\_27:

(Start: 1 @26078 has 11 MA's), (2, 26087), (3, 26135), (6, 26174), (8, 26192), (12, 26261), (15, 26330), (16, 26339), (19, 26465), (22, 26537), (24, 26564), (25, 26567), (29, 26639), (33, 26693), (34, 26756), (39, 26783), (41, 26789), (45, 26840), (49, 26930), (61, 27143), (64, 27200), (65, 27206), (66, 27209),

Gene: MakoManhole\_29 Start: 28075, Stop: 29187, Start Num: 1

Candidate Starts for MakoManhole\_29:

(Start: 1 @28075 has 11 MA's), (8, 28189), (10, 28240), (11, 28249), (13, 28264), (14, 28279), (17, 28345), (19, 28459), (20, 28480), (22, 28531), (26, 28570), (28, 28594), (32, 28654), (41, 28756), (44, 28792), (45, 28807), (51, 28918), (53, 28936), (57, 28972),

Gene: Mariokart\_27 Start: 26000, Stop: 27151, Start Num: 1

Candidate Starts for Mariokart\_27:

(Start: 1 @26000 has 11 MA's), (3, 26060), (14, 26210), (15, 26255), (16, 26264), (17, 26276), (18, 26285), (19, 26390), (22, 26462), (31, 26609), (34, 26693), (35, 26696), (37, 26714), (39, 26720), (41, 26726), (43, 26753), (44, 26762), (45, 26777), (54, 26921), (55, 26924), (56, 26930), (61, 27080), (64, 27137), (65, 27143),

Gene: MossRose\_29 Start: 28054, Stop: 29166, Start Num: 1

Candidate Starts for MossRose\_29:

(Start: 1 @28054 has 11 MA's), (8, 28168), (10, 28219), (11, 28228), (13, 28243), (14, 28258), (17, 28324), (19, 28438), (20, 28459), (22, 28510), (26, 28549), (28, 28573), (32, 28633), (41, 28735), (44, 28771), (45, 28786), (51, 28897), (53, 28915), (57, 28951),

Gene: NHagos\_27 Start: 26589, Stop: 27701, Start Num: 1

Candidate Starts for NHagos\_27:

(Start: 1 @26589 has 11 MA's), (4, 26658), (7, 26691), (8, 26703), (9, 26727), (10, 26754), (13, 26778), (14, 26793), (17, 26859), (19, 26973), (21, 27012), (28, 27111), (32, 27171), (36, 27246), (40, 27270), (41, 27273), (44, 27309), (45, 27324), (47, 27336), (48, 27369), (51, 27435), (57, 27489), (64, 27687),

Gene: Shatter\_27 Start: 26078, Stop: 27217, Start Num: 1

Candidate Starts for Shatter\_27:

(Start: 1 @26078 has 11 MA's), (2, 26087), (3, 26135), (6, 26174), (8, 26192), (12, 26261), (15, 26330), (16, 26339), (19, 26465), (22, 26537), (24, 26564), (25, 26567), (29, 26639), (33, 26693), (34, 26756), (39, 26783), (41, 26789), (45, 26840), (49, 26930), (61, 27143), (64, 27200), (65, 27206), (66, 27209),

Gene: Sour\_31 Start: 30307, Stop: 31437, Start Num: 1

Candidate Starts for Sour\_31:

(Start: 1 @30307 has 11 MA's), (6, 30400), (7, 30406), (13, 30496), (14, 30511), (18, 30577), (22, 30754), (30, 30850), (36, 30967), (38, 30985), (45, 31048), (50, 31150), (51, 31162), (53, 31177), (54, 31195), (59, 31276), (61, 31354), (63, 31405), (64, 31411),

Gene: Wooper\_29 Start: 28066, Stop: 29163, Start Num: 1

Candidate Starts for Wooper\_29:

(Start: 1 @28066 has 11 MA's), (8, 28180), (11, 28240), (13, 28255), (14, 28270), (19, 28450), (21, 28489), (22, 28522), (28, 28579), (31, 28627), (32, 28639), (40, 28732), (41, 28735), (42, 28744), (44, 28771), (45, 28786), (46, 28792), (51, 28891), (52, 28897), (57, 28948), (58, 28969), (60, 29014), (62, 29134),