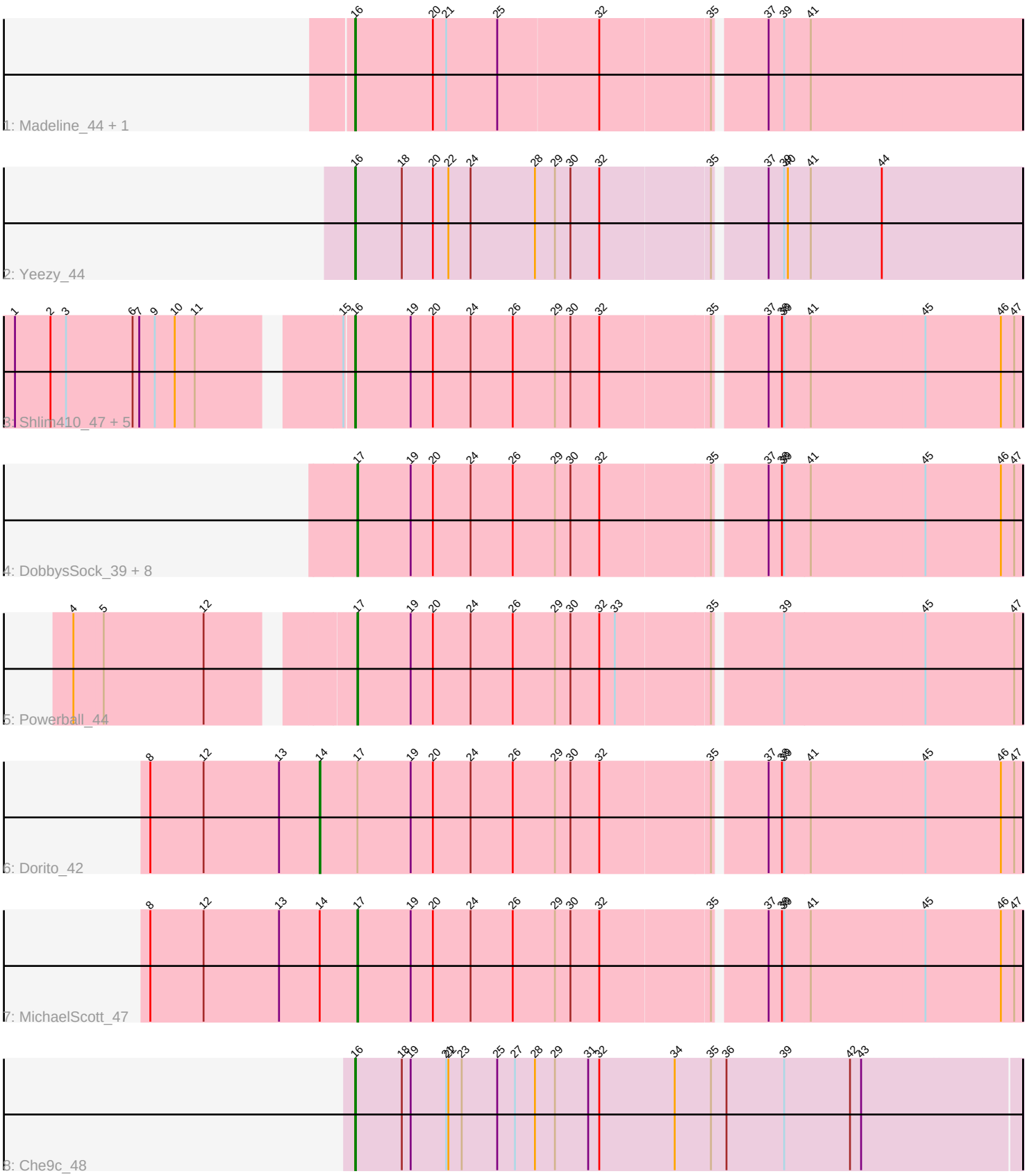
Pham 348033


1: Madeline_44 + 1
2: Yeezy_44
3: Shlim410_47 + 5
4: DobbysSock_39 + 8
5: Powerball_44
6: Dorito_42
7: MichaelScott_47
8: Che9c_48

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 348033 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348033 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Madeline_44, Ohgeesy_47
• Track 2 : Yeezy_44
• Track 3 : Shlim410_47, Howe_49, Twinkle_48, Mcklovin_45, Adora_46, Hortense_49
• Track 4 : DobbysSock_39, Rizz_47, Tuti_42, Sekhmet_47, Thimann_44, Samman98_47, Clark_46, Beenie_40, Invectra_48
• Track 5 : Powerball_44
• Track 6 : Dorito_42
• Track 7 : MichaelScott_47
• Track 8 : Che9c_48

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 10 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_46, Che9c_48, Hortense_49, Howe_49, Madeline_44, Mcklovin_45, Ohgeesy_47, Shlim410_47, Twinkle_48, Yeezy_44,

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

Genes that do not have the "Most Annotated" start:
• Beenie_40, Clark_46, DobbysSock_39, Dorito_42, Invectra_48, MichaelScott_47, Powerball_44, Rizz_47, Samman98_47, Sekhmet_47, Thimann_44, Tuti_42,

Summary by start number:

Start 14:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dorito_42 (CZ4),

Start 16:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 10 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adora_46 (CZ4), Che9c_48 (I2), Hortense_49 (CZ4), Howe_49 (CZ4), Madeline_44 (CZ1), Mcklovin_45 (CZ4), Ohgeesy_47 (CZ), Shlim410_47 (CZ4), Twinkle_48 (CZ4), Yeezy_44 (CZ3),

Start 17:
• Found in 12 of 22 (54.5%) of genes in pham
• Manual Annotations of this start: 10 of 21
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Beenie_40 (CZ4), Clark_46 (CZ4), DobbysSock_39 (CZ4), Invectra_48 (CZ4), MichaelScott_47 (CZ4), Powerball_44 (CZ4), Rizz_47 (CZ4), Samman98_47 (CZ4), Sekhmet_47 (CZ4), Thimann_44 (CZ4), Tuti_42 (CZ4),

Summary by clusters:

There are 5 clusters represented in this pham: CZ, CZ1, I2, CZ4, CZ3,

Info for manual annotations of cluster CZ:
•Start number 16 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 16 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ3:
•Start number 16 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 14 was manually annotated 1 time for cluster CZ4.
•Start number 16 was manually annotated 6 times for cluster CZ4.
•Start number 17 was manually annotated 10 times for cluster CZ4.

Info for manual annotations of cluster I2:
•Start number 16 was manually annotated 1 time for cluster I2.

Gene Information:

Gene: Adora_46 Start: 36099, Stop: 36974, Start Num: 16
Candidate Starts for Adora_46:
(1, 35676), (2, 35724), (3, 35745), (6, 35835), (7, 35844), (9, 35865), (10, 35892), (11, 35919), (15, 36087), (Start: 16 @36099 has 10 MA's), (19, 36174), (20, 36204), (24, 36255), (26, 36312), (29, 36369), (30, 36390), (32, 36429), (35, 36573), (37, 36636), (38, 36654), (39, 36657), (41, 36690), (45, 36843), (46, 36945), (47, 36963),

Gene: Beenie_40 Start: 33513, Stop: 34385, Start Num: 17
Candidate Starts for Beenie_40:

(Start: 17 @33513 has 10 MA's), (19, 33585), (20, 33615), (24, 33666), (26, 33723), (29, 33780), (30, 33801), (32, 33840), (35, 33984), (37, 34047), (38, 34065), (39, 34068), (41, 34101), (45, 34254), (46, 34356), (47, 34374),

Gene: Che9c_48 Start: 38675, Stop: 39562, Start Num: 16
Candidate Starts for Che9c_48:
(Start: 16 @38675 has 10 MA's), (18, 38738), (19, 38750), (21, 38798), (22, 38801), (23, 38819), (25, 38867), (27, 38891), (28, 38918), (29, 38945), (31, 38990), (32, 39005), (34, 39107), (35, 39155), (36, 39176), (39, 39254), (42, 39341), (43, 39356),

Gene: Clark_46 Start: 33330, Stop: 34202, Start Num: 17
Candidate Starts for Clark_46:
(Start: 17 @33330 has 10 MA's), (19, 33402), (20, 33432), (24, 33483), (26, 33540), (29, 33597), (30, 33618), (32, 33657), (35, 33801), (37, 33864), (38, 33882), (39, 33885), (41, 33918), (45, 34071), (46, 34173), (47, 34191),

Gene: DobbysSock_39 Start: 32172, Stop: 33044, Start Num: 17
Candidate Starts for DobbysSock_39:
(Start: 17 @32172 has 10 MA's), (19, 32244), (20, 32274), (24, 32325), (26, 32382), (29, 32439), (30, 32460), (32, 32499), (35, 32643), (37, 32706), (38, 32724), (39, 32727), (41, 32760), (45, 32913), (46, 33015), (47, 33033),

Gene: Dorito_42 Start: 31766, Stop: 32689, Start Num: 14
Candidate Starts for Dorito_42:
(8, 31538), (12, 31610), (13, 31712), (Start: 14 @31766 has 1 MA's), (Start: 17 @31817 has 10 MA's), (19, 31889), (20, 31919), (24, 31970), (26, 32027), (29, 32084), (30, 32105), (32, 32144), (35, 32288), (37, 32351), (38, 32369), (39, 32372), (41, 32405), (45, 32558), (46, 32660), (47, 32678),

Gene: Hortense_49 Start: 37454, Stop: 38329, Start Num: 16
Candidate Starts for Hortense_49:
(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (15, 37442), (Start: 16 @37454 has 10 MA's), (19, 37529), (20, 37559), (24, 37610), (26, 37667), (29, 37724), (30, 37745), (32, 37784), (35, 37928), (37, 37991), (38, 38009), (39, 38012), (41, 38045), (45, 38198), (46, 38300), (47, 38318),

Gene: Howe_49 Start: 37454, Stop: 38329, Start Num: 16
Candidate Starts for Howe_49:
(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (15, 37442), (Start: 16 @37454 has 10 MA's), (19, 37529), (20, 37559), (24, 37610), (26, 37667), (29, 37724), (30, 37745), (32, 37784), (35, 37928), (37, 37991), (38, 38009), (39, 38012), (41, 38045), (45, 38198), (46, 38300), (47, 38318),

Gene: Invectra_48 Start: 34904, Stop: 35776, Start Num: 17
Candidate Starts for Invectra_48:
(Start: 17 @34904 has 10 MA's), (19, 34976), (20, 35006), (24, 35057), (26, 35114), (29, 35171), (30, 35192), (32, 35231), (35, 35375), (37, 35438), (38, 35456), (39, 35459), (41, 35492), (45, 35645), (46, 35747), (47, 35765),

Gene: Madeline_44 Start: 35552, Stop: 36421, Start Num: 16
Candidate Starts for Madeline_44:
(Start: 16 @35552 has 10 MA's), (20, 35657), (21, 35675), (25, 35744), (32, 35876), (35, 36020), (37, 36083), (39, 36104), (41, 36137),

Gene: Mcklovin_45 Start: 38921, Stop: 39796, Start Num: 16
Candidate Starts for Mcklovin_45:
(1, 38498), (2, 38546), (3, 38567), (6, 38657), (7, 38666), (9, 38687), (10, 38714), (11, 38741), (15, 38909), (Start: 16 @38921 has 10 MA's), (19, 38996), (20, 39026), (24, 39077), (26, 39134), (29, 39191), (30, 39212), (32, 39251), (35, 39395), (37, 39458), (38, 39476), (39, 39479), (41, 39512), (45, 39665), (46, 39767), (47, 39785),

Gene: MichaelScott_47 Start: 34807, Stop: 35679, Start Num: 17
Candidate Starts for MichaelScott_47:
(8, 34528), (12, 34600), (13, 34702), (Start: 14 @34756 has 1 MA's), (Start: 17 @34807 has 10 MA's), (19, 34879), (20, 34909), (24, 34960), (26, 35017), (29, 35074), (30, 35095), (32, 35134), (35, 35278), (37, 35341), (38, 35359), (39, 35362), (41, 35395), (45, 35548), (46, 35650), (47, 35668),

Gene: Ohgeesy_47 Start: 36347, Stop: 37216, Start Num: 16
Candidate Starts for Ohgeesy_47:
(Start: 16 @36347 has 10 MA's), (20, 36452), (21, 36470), (25, 36539), (32, 36671), (35, 36815), (37, 36878), (39, 36899), (41, 36932),

Gene: Powerball_44 Start: 33674, Stop: 34546, Start Num: 17
Candidate Starts for Powerball_44:
(4, 33329), (5, 33368), (12, 33503), (Start: 17 @33674 has 10 MA's), (19, 33746), (20, 33776), (24, 33827), (26, 33884), (29, 33941), (30, 33962), (32, 34001), (33, 34022), (35, 34145), (39, 34229), (45, 34415), (47, 34535),

Gene: Rizz_47 Start: 34116, Stop: 34988, Start Num: 17
Candidate Starts for Rizz_47:
(Start: 17 @34116 has 10 MA's), (19, 34188), (20, 34218), (24, 34269), (26, 34326), (29, 34383), (30, 34404), (32, 34443), (35, 34587), (37, 34650), (38, 34668), (39, 34671), (41, 34704), (45, 34857), (46, 34959), (47, 34977),

Gene: Samman98_47 Start: 33433, Stop: 34305, Start Num: 17
Candidate Starts for Samman98_47:
(Start: 17 @33433 has 10 MA's), (19, 33505), (20, 33535), (24, 33586), (26, 33643), (29, 33700), (30, 33721), (32, 33760), (35, 33904), (37, 33967), (38, 33985), (39, 33988), (41, 34021), (45, 34174), (46, 34276), (47, 34294),

Gene: Sekhmet_47 Start: 34333, Stop: 35205, Start Num: 17
Candidate Starts for Sekhmet_47:
(Start: 17 @34333 has 10 MA's), (19, 34405), (20, 34435), (24, 34486), (26, 34543), (29, 34600), (30, 34621), (32, 34660), (35, 34804), (37, 34867), (38, 34885), (39, 34888), (41, 34921), (45, 35074), (46, 35176), (47, 35194),

Gene: Shlim410_47 Start: 37454, Stop: 38329, Start Num: 16
Candidate Starts for Shlim410_47:
(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (15, 37442), (Start: 16 @37454 has 10 MA's), (19, 37529), (20, 37559), (24, 37610), (26, 37667), (29, 37724), (30, 37745), (32, 37784), (35, 37928), (37, 37991), (38, 38009), (39, 38012), (41, 38045), (45, 38198), (46, 38300), (47, 38318),

Gene: Thimann_44 Start: 32698, Stop: 33570, Start Num: 17
Candidate Starts for Thimann_44:
(Start: 17 @32698 has 10 MA's), (19, 32770), (20, 32800), (24, 32851), (26, 32908), (29, 32965), (30, 32986), (32, 33025), (35, 33169), (37, 33232), (38, 33250), (39, 33253), (41, 33286), (45, 33439), (46,

33541), (47, 33559),

Gene: Tuti_42 Start: 34148, Stop: 35020, Start Num: 17
Candidate Starts for Tuti_42:
(Start: 17 @34148 has 10 MA's), (19, 34220), (20, 34250), (24, 34301), (26, 34358), (29, 34415), (30, 34436), (32, 34475), (35, 34619), (37, 34682), (38, 34700), (39, 34703), (41, 34736), (45, 34889), (46, 34991), (47, 35009),

Gene: Twinkle_48 Start: 38513, Stop: 39388, Start Num: 16
Candidate Starts for Twinkle_48:
(1, 38090), (2, 38138), (3, 38159), (6, 38249), (7, 38258), (9, 38279), (10, 38306), (11, 38333), (15, 38501), (Start: 16 @38513 has 10 MA's), (19, 38588), (20, 38618), (24, 38669), (26, 38726), (29, 38783), (30, 38804), (32, 38843), (35, 38987), (37, 39050), (38, 39068), (39, 39071), (41, 39104), (45, 39257), (46, 39359), (47, 39377),

Gene: Yeezy_44 Start: 33390, Stop: 34265, Start Num: 16
Candidate Starts for Yeezy_44:
(Start: 16 @33390 has 10 MA's), (18, 33453), (20, 33495), (22, 33516), (24, 33546), (28, 33633), (29, 33660), (30, 33681), (32, 33720), (35, 33864), (37, 33927), (39, 33948), (40, 33951), (41, 33981), (44, 34077),