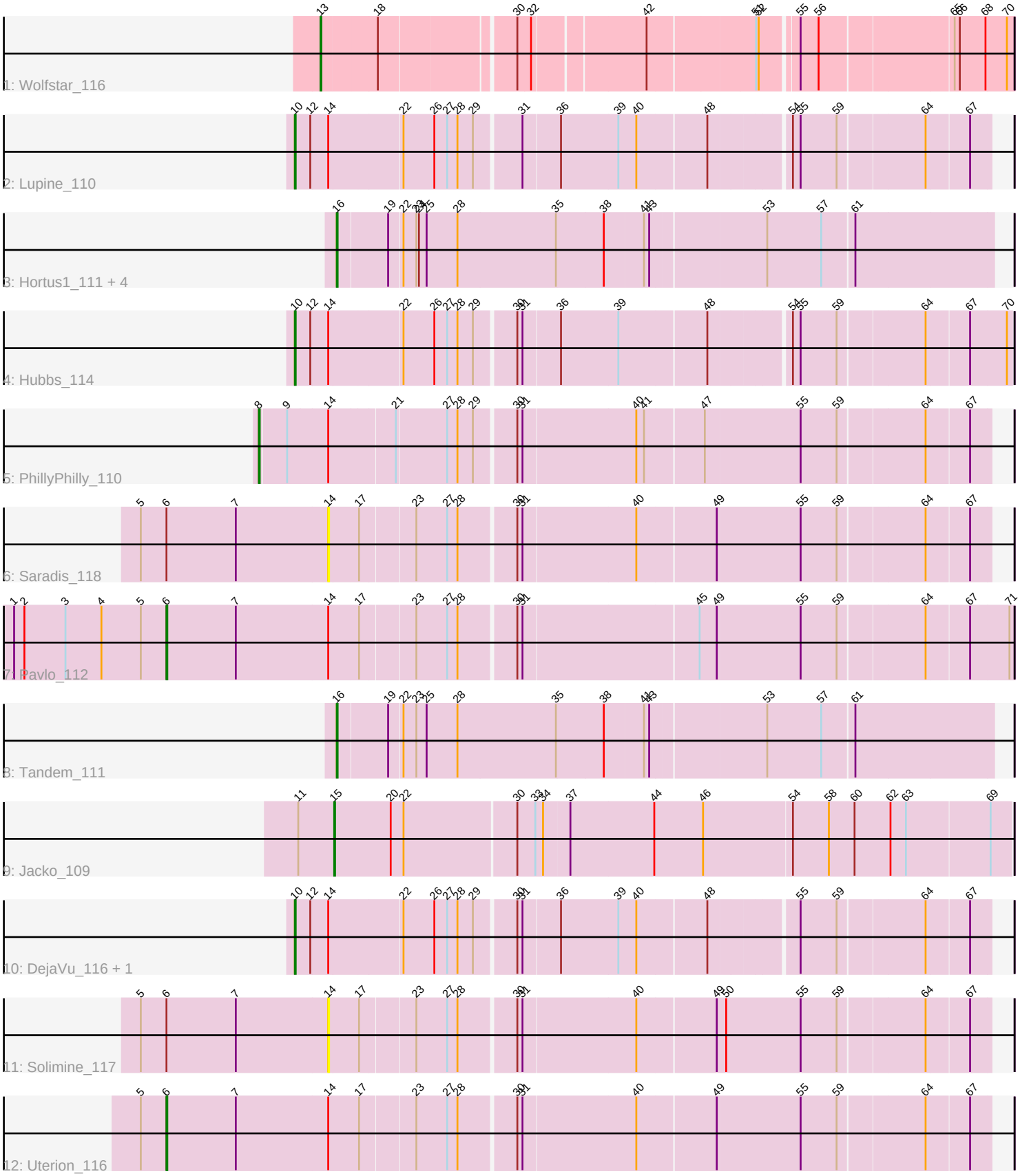
Pham 348096


1: Wolfstar_116
2: Lupine_110
3: Hortus1_111 + 4
4: Hubbs_114
5: PhillyPhilly_110
6: Saradis_118
7: Pavlo_112
8: Tandem_111
9: Jacko_109
10: DejaVu_116 + 1
11: Solimine_117
12: Uterion_116

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 348096 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 348096 has 17 members, 2 are drafts.

Phages represented in each track:
- Track 1 : Wolfstar_116
- Track 2 : Lupine_110
- Track 3 : Hortus1_111, Platte_110, OlinDD_111, Pioneer3_111, Alleb_108
- Track 4 : Hubbs_114
- Track 5 : PhillyPhilly_110
- Track 6 : Saradis_118
- Track 7 : Pavlo_112
- Track 8 : Tandem_111
- Track 9 : Jacko_109
- Track 10 : DejaVu_116, Roman_116
- Track 11 : Solimine_117
- Track 12 : Uterion_116

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 6 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Alleb_108, Hortus1_111, OlinDD_111, Pioneer3_111, Platte_110, Tandem_111,

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

Genes that do not have the "Most Annotated" start:
- DejaVu_116, Hubbs_114, Jacko_109, Lupine_110, Pavlo_112, PhillyPhilly_110, Roman_116, Saradis_118, Solimine_117, Uterion_116, Wolfstar_116,

Summary by start number:

Start 6:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Pavlo_112 (ED1), Uterion_116 (ED1),

Start 8:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PhillyPhilly_110 (ED1),

Start 10:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DejaVu_116 (ED1), Hubbs_114 (ED1), Lupine_110 (ED1), Roman_116 (ED1),

Start 13:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wolfstar_116 (ED),

Start 14:
• Found in 9 of 17 (52.9%) of genes in pham
• No Manual Annotations of this start.
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Saradis_118 (ED1), Solimine_117 (ED1),

Start 15:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jacko_109 (ED1),

Start 16:
• Found in 6 of 17 (35.3%) of genes in pham
• Manual Annotations of this start: 6 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_108 (ED1), Hortus1_111 (ED1), OlinDD_111 (ED1), Pioneer3_111 (ED1), Platte_110 (ED1), Tandem_111 (ED1),

Summary by clusters:

There are 2 clusters represented in this pham: ED, ED1,

Info for manual annotations of cluster ED:
•Start number 13 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

•Start number 6 was manually annotated 2 times for cluster ED1.
•Start number 8 was manually annotated 1 time for cluster ED1.
•Start number 10 was manually annotated 4 times for cluster ED1.
•Start number 15 was manually annotated 1 time for cluster ED1.
•Start number 16 was manually annotated 6 times for cluster ED1.

Gene Information:

Gene: Alleb_108 Start: 59175, Stop: 58435, Start Num: 16
Candidate Starts for Alleb_108:
(Start: 16 @59175 has 6 MA's), (19, 59118), (22, 59103), (23, 59088), (24, 59085), (25, 59076), (28, 59040), (35, 58926), (38, 58872), (41, 58827), (43, 58821), (53, 58692), (57, 58629), (61, 58593),

Gene: DejaVu_116 Start: 60113, Stop: 59355, Start Num: 10
Candidate Starts for DejaVu_116:
(Start: 10 @60113 has 4 MA's), (12, 60095), (14, 60077), (22, 59996), (26, 59960), (27, 59945), (28, 59933), (29, 59915), (30, 59870), (31, 59864), (36, 59822), (39, 59756), (40, 59735), (48, 59657), (55, 59564), (59, 59522), (64, 59426), (67, 59378),

Gene: Hortus1_111 Start: 59656, Stop: 58916, Start Num: 16
Candidate Starts for Hortus1_111:
(Start: 16 @59656 has 6 MA's), (19, 59599), (22, 59584), (23, 59569), (24, 59566), (25, 59557), (28, 59521), (35, 59407), (38, 59353), (41, 59308), (43, 59302), (53, 59173), (57, 59110), (61, 59074),

Gene: Hubbs_114 Start: 60132, Stop: 59350, Start Num: 10
Candidate Starts for Hubbs_114:
(Start: 10 @60132 has 4 MA's), (12, 60114), (14, 60096), (22, 60015), (26, 59979), (27, 59964), (28, 59952), (29, 59934), (30, 59889), (31, 59883), (36, 59841), (39, 59775), (48, 59676), (54, 59592), (55, 59583), (59, 59541), (64, 59445), (67, 59397), (70, 59355),

Gene: Jacko_109 Start: 58092, Stop: 57319, Start Num: 15
Candidate Starts for Jacko_109:
(11, 58134), (Start: 15 @58092 has 1 MA's), (20, 58026), (22, 58011), (30, 57885), (33, 57864), (34, 57855), (37, 57825), (44, 57729), (46, 57672), (54, 57570), (58, 57528), (60, 57498), (62, 57456), (63, 57438), (69, 57342),

Gene: Lupine_110 Start: 59007, Stop: 58249, Start Num: 10
Candidate Starts for Lupine_110:
(Start: 10 @59007 has 4 MA's), (12, 58989), (14, 58971), (22, 58890), (26, 58854), (27, 58839), (28, 58827), (29, 58809), (31, 58758), (36, 58716), (39, 58650), (40, 58629), (48, 58551), (54, 58467), (55, 58458), (59, 58416), (64, 58320), (67, 58272),

Gene: OlinDD_111 Start: 59661, Stop: 58921, Start Num: 16
Candidate Starts for OlinDD_111:
(Start: 16 @59661 has 6 MA's), (19, 59604), (22, 59589), (23, 59574), (24, 59571), (25, 59562), (28, 59526), (35, 59412), (38, 59358), (41, 59313), (43, 59307), (53, 59178), (57, 59115), (61, 59079),

Gene: Pavlo_112 Start: 60137, Stop: 59193, Start Num: 6
Candidate Starts for Pavlo_112:
(1, 60314), (2, 60302), (3, 60254), (4, 60212), (5, 60167), (Start: 6 @60137 has 2 MA's), (7, 60056), (14, 59951), (17, 59918), (23, 59858), (27, 59822), (28, 59810), (30, 59747), (31, 59741), (45, 59543),

(49, 59525), (55, 59429), (59, 59387), (64, 59291), (67, 59243), (71, 59198),

Gene: PhillyPhilly_110 Start: 59257, Stop: 58451, Start Num: 8
Candidate Starts for PhillyPhilly_110:
(Start: 8 @59257 has 1 MA's), (9, 59227), (14, 59182), (21, 59110), (27, 59053), (28, 59041), (29, 59023), (30, 58978), (31, 58972), (40, 58843), (41, 58834), (47, 58768), (55, 58660), (59, 58618), (64, 58522), (67, 58474),

Gene: Pioneer3_111 Start: 59459, Stop: 58719, Start Num: 16
Candidate Starts for Pioneer3_111:
(Start: 16 @59459 has 6 MA's), (19, 59402), (22, 59387), (23, 59372), (24, 59369), (25, 59360), (28, 59324), (35, 59210), (38, 59156), (41, 59111), (43, 59105), (53, 58976), (57, 58913), (61, 58877),

Gene: Platte_110 Start: 59244, Stop: 58504, Start Num: 16
Candidate Starts for Platte_110:
(Start: 16 @59244 has 6 MA's), (19, 59187), (22, 59172), (23, 59157), (24, 59154), (25, 59145), (28, 59109), (35, 58995), (38, 58941), (41, 58896), (43, 58890), (53, 58761), (57, 58698), (61, 58662),

Gene: Roman_116 Start: 60821, Stop: 60063, Start Num: 10
Candidate Starts for Roman_116:
(Start: 10 @60821 has 4 MA's), (12, 60803), (14, 60785), (22, 60704), (26, 60668), (27, 60653), (28, 60641), (29, 60623), (30, 60578), (31, 60572), (36, 60530), (39, 60464), (40, 60443), (48, 60365), (55, 60272), (59, 60230), (64, 60134), (67, 60086),

Gene: Saradis_118 Start: 60070, Stop: 59339, Start Num: 14
Candidate Starts for Saradis_118:
(5, 60286), (Start: 6 @60256 has 2 MA's), (7, 60175), (14, 60070), (17, 60037), (23, 59977), (27, 59941), (28, 59929), (30, 59866), (31, 59860), (40, 59731), (49, 59644), (55, 59548), (59, 59506), (64, 59410), (67, 59362),

Gene: Solimine_117 Start: 60669, Stop: 59938, Start Num: 14
Candidate Starts for Solimine_117:
(5, 60885), (Start: 6 @60855 has 2 MA's), (7, 60774), (14, 60669), (17, 60636), (23, 60576), (27, 60540), (28, 60528), (30, 60465), (31, 60459), (40, 60330), (49, 60243), (50, 60234), (55, 60147), (59, 60105), (64, 60009), (67, 59961),

Gene: Tandem_111 Start: 59539, Stop: 58799, Start Num: 16
Candidate Starts for Tandem_111:
(Start: 16 @59539 has 6 MA's), (19, 59482), (22, 59467), (23, 59452), (25, 59440), (28, 59404), (35, 59290), (38, 59236), (41, 59191), (43, 59185), (53, 59056), (57, 58993), (61, 58957),

Gene: Uterion_116 Start: 59971, Stop: 59054, Start Num: 6
Candidate Starts for Uterion_116:
(5, 60001), (Start: 6 @59971 has 2 MA's), (7, 59890), (14, 59785), (17, 59752), (23, 59692), (27, 59656), (28, 59644), (30, 59581), (31, 59575), (40, 59446), (49, 59359), (55, 59263), (59, 59221), (64, 59125), (67, 59077),

Gene: Wolfstar_116 Start: 60836, Stop: 60099, Start Num: 13
Candidate Starts for Wolfstar_116:
(Start: 13 @60836 has 1 MA's), (18, 60776), (30, 60629), (32, 60614), (42, 60494), (51, 60377), (52, 60374), (55, 60335), (56, 60314), (65, 60167), (66, 60161), (68, 60131), (70, 60107),