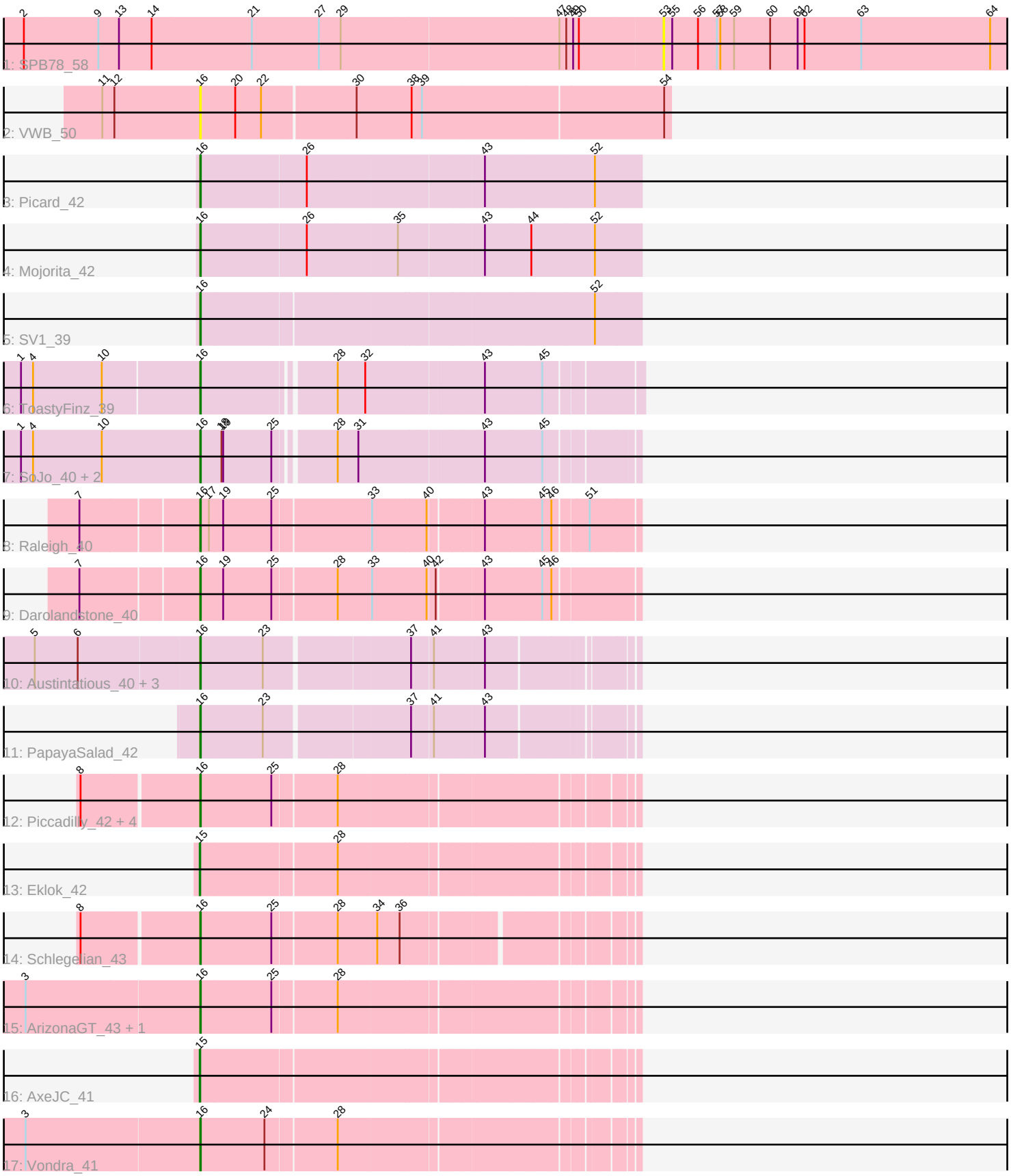
Pham 301649


1: SPB78_58
2: VWB_50
3: Picard_42
4: Mojorita_42
5: SV1_39
6: ToastyFinz_39
7: SoJo_40 + 2
8: Raleigh_40
9: Darolandstone_40
10: Austintatious_40 + 3
11: PapayaSalad_42
12: Piccadilly_42 + 4
13: Eklok_42
14: Schlegelian_43
15: ArizonaGT_43 + 1
16: AxeJC_41
17: Vondra_41

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 301649 Report

This analysis was run 06/08/26 on database version 649.

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 301649 has 27 members, 3 are drafts.

Phages represented in each track:
- Track 1 : SPB78_58
- Track 2 : VWB_50
- Track 3 : Picard_42
- Track 4 : Mojorita_42
- Track 5 : SV1_39
- Track 6 : ToastyFinz_39
- Track 7 : SoJo_40, Tubberson_40, DaRealMyers_40
- Track 8 : Raleigh_40
- Track 9 : Darolandstone_40
- Track 10 : Austintatious_40, Ididsumtinwong_44, Lishka_40, Bioscum_43
- Track 11 : PapayaSalad_42
- Track 12 : Piccadilly_42, Eastland_42, HFrancette_43, Ignacio_42, FrumpyGal_43
- Track 13 : Eklok_42
- Track 14 : Schlegelian_43
- Track 15 : ArizonaGT_43, Cumberbatch_43
- Track 16 : AxeJC_41
- Track 17 : Vondra_41

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 22 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- ArizonaGT_43, Austintatious_40, Bioscum_43, Cumberbatch_43, DaRealMyers_40, Darolandstone_40, Eastland_42, FrumpyGal_43, HFrancette_43, Ididsumtinwong_44, Ignacio_42, Lishka_40, Mojorita_42, PapayaSalad_42, Picard_42, Piccadilly_42, Raleigh_40, SV1_39, Schlegelian_43, SoJo_40, ToastyFinz_39, Tubberson_40, VWB_50, Vondra_41,

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

Genes that do not have the "Most Annotated" start:
• AxeJC_41, Eklok_42, SPB78_58,

Summary by start number:

Start 15:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AxeJC_41 (BP), Eklok_42 (BP),

Start 16:
• Found in 24 of 27 (88.9%) of genes in pham
• Manual Annotations of this start: 22 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArizonaGT_43 (BP), Austintatious_40 (BC3), Bioscum_43 (BC3), Cumberbatch_43 (BP), DaRealMyers_40 (BC1), Darolandstone_40 (BC2), Eastland_42 (BP), FrumpyGal_43 (BP), HFrancette_43 (BP), Ididsumtinwong_44 (BC3), Ignacio_42 (BP), Lishka_40 (BC3), Mojorita_42 (BC1), PapayaSalad_42 (BC3), Picard_42 (BC1), Piccadilly_42 (BP), Raleigh_40 (BC2), SV1_39 (BC1), Schlegelian_43 (BP), SoJo_40 (BC1), ToastyFinz_39 (BC1), Tubberson_40 (BC1), VWB_50 (BA), Vondra_41 (BP),

Start 53:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SPB78_58 (BA),

Summary by clusters:

There are 5 clusters represented in this pham: BA, BP, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:
•Start number 16 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 16 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 16 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:
•Start number 15 was manually annotated 2 times for cluster BP.
•Start number 16 was manually annotated 9 times for cluster BP.

Gene Information:

Gene: ArizonaGT_43 Start: 29287, Stop: 29967, Start Num: 16
Candidate Starts for ArizonaGT_43:
(3, 28987), (Start: 16 @29287 has 22 MA's), (25, 29410), (28, 29512),

Gene: Austintatious_40 Start: 26725, Stop: 27405, Start Num: 16
Candidate Starts for Austintatious_40:
(5, 26443), (6, 26518), (Start: 16 @26725 has 22 MA's), (23, 26830), (37, 27061), (41, 27097), (43, 27178),

Gene: AxeJC_41 Start: 28989, Stop: 29669, Start Num: 15
Candidate Starts for AxeJC_41:
(Start: 15 @28989 has 2 MA's),

Gene: Bioscum_43 Start: 29021, Stop: 29701, Start Num: 16
Candidate Starts for Bioscum_43:
(5, 28739), (6, 28814), (Start: 16 @29021 has 22 MA's), (23, 29126), (37, 29357), (41, 29393), (43, 29474),

Gene: Cumberbatch_43 Start: 29287, Stop: 29967, Start Num: 16
Candidate Starts for Cumberbatch_43:
(3, 28987), (Start: 16 @29287 has 22 MA's), (25, 29410), (28, 29512),

Gene: DaRealMyers_40 Start: 29957, Stop: 30646, Start Num: 16
Candidate Starts for DaRealMyers_40:
(1, 29645), (4, 29666), (10, 29786), (Start: 16 @29957 has 22 MA's), (18, 29993), (19, 29996), (25, 30080), (28, 30167), (31, 30203), (43, 30410), (45, 30506),

Gene: Darolandstone_40 Start: 31614, Stop: 32318, Start Num: 16
Candidate Starts for Darolandstone_40:
(7, 31419), (Start: 16 @31614 has 22 MA's), (19, 31653), (25, 31737), (28, 31839), (33, 31896), (40, 31989), (42, 32001), (43, 32073), (45, 32169), (46, 32184),

Gene: Eastland_42 Start: 29247, Stop: 29927, Start Num: 16
Candidate Starts for Eastland_42:
(8, 29049), (Start: 16 @29247 has 22 MA's), (25, 29370), (28, 29472),

Gene: Eklok_42 Start: 29046, Stop: 29726, Start Num: 15
Candidate Starts for Eklok_42:
(Start: 15 @29046 has 2 MA's), (28, 29271),

Gene: FrumpyGal_43 Start: 29247, Stop: 29927, Start Num: 16
Candidate Starts for FrumpyGal_43:
(8, 29049), (Start: 16 @29247 has 22 MA's), (25, 29370), (28, 29472),

Gene: HFrancette_43 Start: 30025, Stop: 30705, Start Num: 16
Candidate Starts for HFrancette_43:
(8, 29827), (Start: 16 @30025 has 22 MA's), (25, 30148), (28, 30250),

Gene: Ididsumtinwong_44 Start: 29021, Stop: 29701, Start Num: 16
Candidate Starts for Ididsumtinwong_44:
(5, 28739), (6, 28814), (Start: 16 @29021 has 22 MA's), (23, 29126), (37, 29357), (41, 29393), (43, 29474),

Gene: Ignacio_42 Start: 29928, Stop: 30608, Start Num: 16
Candidate Starts for Ignacio_42:
(8, 29730), (Start: 16 @29928 has 22 MA's), (25, 30051), (28, 30153),

Gene: Lishka_40 Start: 26725, Stop: 27405, Start Num: 16
Candidate Starts for Lishka_40:
(5, 26443), (6, 26518), (Start: 16 @26725 has 22 MA's), (23, 26830), (37, 27061), (41, 27097), (43, 27178),

Gene: Mojorita_42 Start: 29163, Stop: 29900, Start Num: 16
Candidate Starts for Mojorita_42:
(Start: 16 @29163 has 22 MA's), (26, 29343), (35, 29496), (43, 29634), (44, 29712), (52, 29820),

Gene: PapayaSalad_42 Start: 29311, Stop: 29991, Start Num: 16
Candidate Starts for PapayaSalad_42:
(Start: 16 @29311 has 22 MA's), (23, 29416), (37, 29647), (41, 29683), (43, 29764),

Gene: Picard_42 Start: 29361, Stop: 30098, Start Num: 16
Candidate Starts for Picard_42:
(Start: 16 @29361 has 22 MA's), (26, 29541), (43, 29832), (52, 30018),

Gene: Piccadilly_42 Start: 29246, Stop: 29926, Start Num: 16
Candidate Starts for Piccadilly_42:
(8, 29048), (Start: 16 @29246 has 22 MA's), (25, 29369), (28, 29471),

Gene: Raleigh_40 Start: 31982, Stop: 32686, Start Num: 16
Candidate Starts for Raleigh_40:
(7, 31787), (Start: 16 @31982 has 22 MA's), (17, 31997), (19, 32021), (25, 32105), (33, 32264), (40, 32357), (43, 32441), (45, 32537), (46, 32552), (51, 32606),

Gene: SPB78_58 Start: 39567, Stop: 40202, Start Num: 53
Candidate Starts for SPB78_58:
(2, 38469), (9, 38598), (13, 38634), (14, 38691), (21, 38865), (27, 38982), (29, 39018), (47, 39390), (48, 39402), (49, 39414), (50, 39423), (53, 39567), (55, 39582), (56, 39627), (57, 39660), (58, 39666), (59, 39690), (60, 39753), (61, 39801), (62, 39813), (63, 39912), (64, 40137),

Gene: SV1_39 Start: 28072, Stop: 28803, Start Num: 16
Candidate Starts for SV1_39:
(Start: 16 @28072 has 22 MA's), (52, 28723),

Gene: Schlegelian_43 Start: 29811, Stop: 30476, Start Num: 16
Candidate Starts for Schlegelian_43:
(8, 29613), (Start: 16 @29811 has 22 MA's), (25, 29934), (28, 30036), (34, 30102), (36, 30141),

Gene: SoJo_40 Start: 29952, Stop: 30641, Start Num: 16
Candidate Starts for SoJo_40:
(1, 29640), (4, 29661), (10, 29781), (Start: 16 @29952 has 22 MA's), (18, 29988), (19, 29991), (25, 30075), (28, 30162), (31, 30198), (43, 30405), (45, 30501),

Gene: ToastyFinz_39 Start: 30745, Stop: 31443, Start Num: 16
Candidate Starts for ToastyFinz_39:
(1, 30439), (4, 30460), (10, 30580), (Start: 16 @30745 has 22 MA's), (28, 30955), (32, 31003), (43, 31198), (45, 31294),

Gene: Tubberson_40 Start: 29954, Stop: 30643, Start Num: 16
Candidate Starts for Tubberson_40:
(1, 29642), (4, 29663), (10, 29783), (Start: 16 @29954 has 22 MA's), (18, 29990), (19, 29993), (25, 30077), (28, 30164), (31, 30200), (43, 30407), (45, 30503),

Gene: VWB_50 Start: 37705, Stop: 38505, Start Num: 16
Candidate Starts for VWB_50:
(11, 37534), (12, 37555), (Start: 16 @37705 has 22 MA's), (20, 37765), (22, 37810), (30, 37966), (38, 38062), (39, 38080), (54, 38494),

Gene: Vondra_41 Start: 29098, Stop: 29778, Start Num: 16
Candidate Starts for Vondra_41:
(3, 28798), (Start: 16 @29098 has 22 MA's), (24, 29209), (28, 29323),