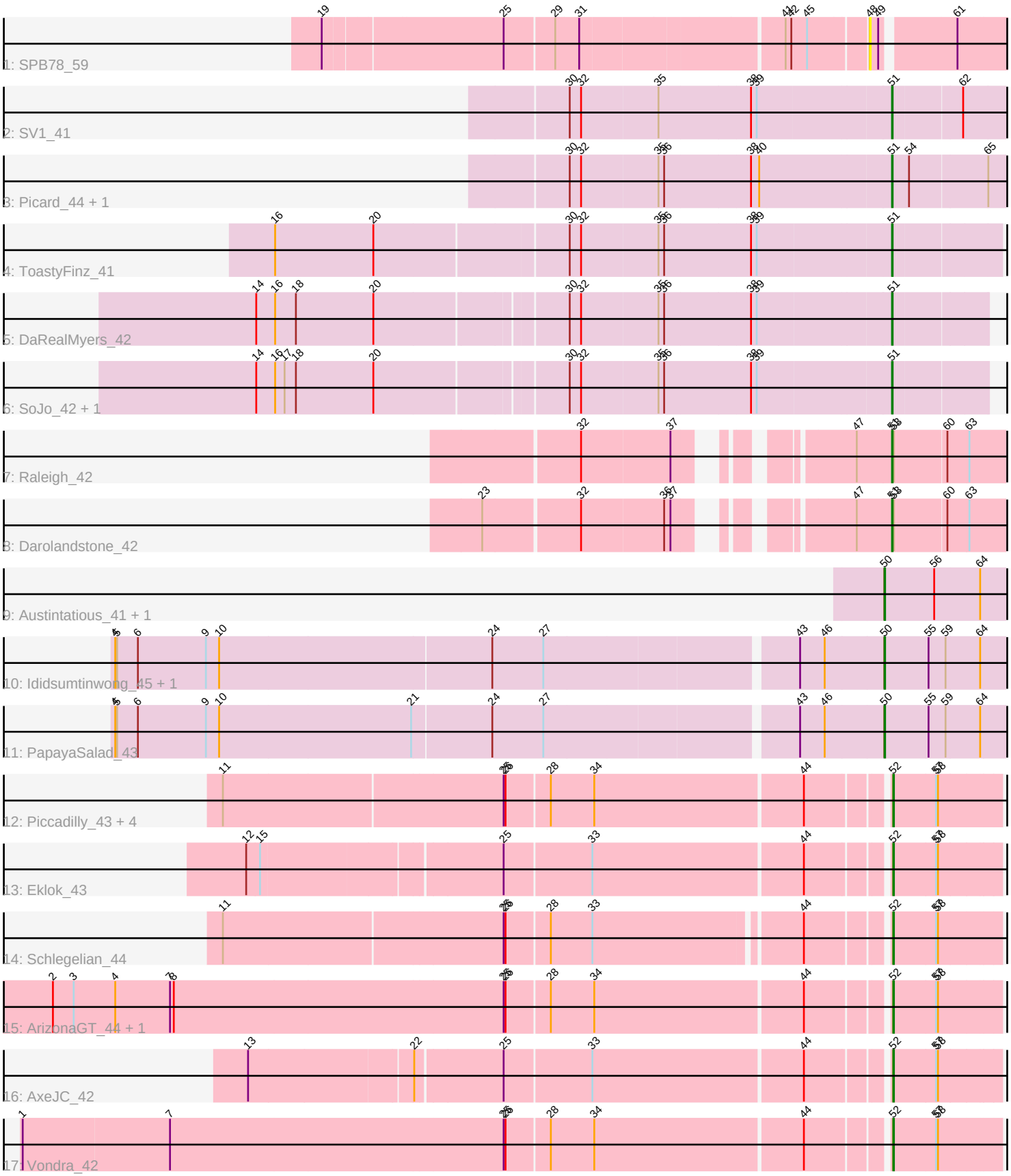
Pham 347952


1: SPB78_59
2: SV1_41
3: Picard_44 + 1
4: ToastyFinz_41
5: DaRealMyers_42
6: SoJo_42 + 1
7: Raleigh_42
8: Darolandstone_42
9: Austintatious_41 + 1
10: Ididsumtinwong_45 + 1
11: PapayaSalad_43
12: Piccadilly_43 + 4
13: Eklok_43
14: Schlegelian_44
15: ArizonaGT_44 + 1
16: AxeJC_42
17: Vondra_42

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 347952 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 347952 has 26 members, 1 are drafts.

Phages represented in each track:
- Track 1 : SPB78_59
- Track 2 : SV1_41
- Track 3 : Picard_44, Mojorita_44
- Track 4 : ToastyFinz_41
- Track 5 : DaRealMyers_42
- Track 6 : SoJo_42, Tubberson_42
- Track 7 : Raleigh_42
- Track 8 : Darolandstone_42
- Track 9 : Austintatious_41, Lishka_41
- Track 10 : Ididsumtinwong_45, Bioscum_44
- Track 11 : PapayaSalad_43
- Track 12 : Piccadilly_43, Eastland_43, HFrancette_44, Ignacio_43, FrumpyGal_44
- Track 13 : Eklok_43
- Track 14 : Schlegelian_44
- Track 15 : ArizonaGT_44, Cumberbatch_44
- Track 16 : AxeJC_42
- Track 17 : Vondra_42

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

The start number called the most often in the published annotations is 52, it was called in 11 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- ArizonaGT_44, AxeJC_42, Cumberbatch_44, Eastland_43, Eklok_43, FrumpyGal_44, HFrancette_44, Ignacio_43, Piccadilly_43, Schlegelian_44, Vondra_42,

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

Genes that do not have the "Most Annotated" start:
• Austintatious_41, Bioscum_44, DaRealMyers_42, Darolandstone_42, Ididsumtinwong_45, Lishka_41, Mojorita_44, PapayaSalad_43, Picard_44, Raleigh_42, SPB78_59, SV1_41, SoJo_42, ToastyFinz_41, Tubberson_42,

Summary by start number:

Start 48:
• Found in 1 of 26 (3.8%) 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_59 (BA),

Start 50:
• Found in 5 of 26 (19.2%) of genes in pham
• Manual Annotations of this start: 5 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_41 (BC3), Bioscum_44 (BC3), Ididsumtinwong_45 (BC3), Lishka_41 (BC3), PapayaSalad_43 (BC3),

Start 51:
• Found in 9 of 26 (34.6%) of genes in pham
• Manual Annotations of this start: 9 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DaRealMyers_42 (BC1), Darolandstone_42 (BC2), Mojorita_44 (BC1), Picard_44 (BC1), Raleigh_42 (BC2), SV1_41 (BC1), SoJo_42 (BC1), ToastyFinz_41 (BC1), Tubberson_42 (BC1),

Start 52:
• Found in 11 of 26 (42.3%) of genes in pham
• Manual Annotations of this start: 11 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArizonaGT_44 (BP), AxeJC_42 (BP), Cumberbatch_44 (BP), Eastland_43 (BP), Eklok_43 (BP), FrumpyGal_44 (BP), HFrancette_44 (BP), Ignacio_43 (BP), Piccadilly_43 (BP), Schlegelian_44 (BP), Vondra_42 (BP),

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 51 was manually annotated 7 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 51 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 50 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:

•Start number 52 was manually annotated 11 times for cluster BP.

Gene Information:

Gene: ArizonaGT_44 Start: 29964, Stop: 30128, Start Num: 52
Candidate Starts for ArizonaGT_44:
(2, 28677), (3, 28710), (4, 28776), (7, 28863), (8, 28869), (25, 29388), (26, 29391), (28, 29457), (34, 29526), (44, 29850), (Start: 52 @29964 has 11 MA's), (57, 30030), (58, 30033),

Gene: Austintatious_41 Start: 27402, Stop: 27590, Start Num: 50
Candidate Starts for Austintatious_41:
(Start: 50 @27402 has 5 MA's), (56, 27480), (64, 27552),

Gene: AxeJC_42 Start: 29666, Stop: 29830, Start Num: 52
Candidate Starts for AxeJC_42:
(13, 28706), (22, 28958), (25, 29090), (33, 29225), (44, 29552), (Start: 52 @29666 has 11 MA's), (57, 29732), (58, 29735),

Gene: Bioscum_44 Start: 29698, Stop: 29886, Start Num: 50
Candidate Starts for Bioscum_44:
(4, 28513), (5, 28516), (6, 28549), (9, 28657), (10, 28678), (24, 29104), (27, 29185), (43, 29566), (46, 29605), (Start: 50 @29698 has 5 MA's), (55, 29767), (59, 29794), (64, 29848),

Gene: Cumberbatch_44 Start: 29964, Stop: 30128, Start Num: 52
Candidate Starts for Cumberbatch_44:
(2, 28677), (3, 28710), (4, 28776), (7, 28863), (8, 28869), (25, 29388), (26, 29391), (28, 29457), (34, 29526), (44, 29850), (Start: 52 @29964 has 11 MA's), (57, 30030), (58, 30033),

Gene: DaRealMyers_42 Start: 31200, Stop: 31340, Start Num: 51
Candidate Starts for DaRealMyers_42:
(14, 30249), (16, 30279), (18, 30312), (20, 30435), (30, 30720), (32, 30738), (35, 30858), (36, 30867), (38, 30999), (39, 31008), (Start: 51 @31200 has 9 MA's),

Gene: Darolandstone_42 Start: 32791, Stop: 32961, Start Num: 51
Candidate Starts for Darolandstone_42:
(23, 32269), (32, 32416), (36, 32545), (37, 32554), (47, 32749), (Start: 51 @32791 has 9 MA's), (53, 32794), (60, 32872), (63, 32905),

Gene: Eastland_43 Start: 29924, Stop: 30088, Start Num: 52
Candidate Starts for Eastland_43:
(11, 28913), (25, 29348), (26, 29351), (28, 29417), (34, 29486), (44, 29810), (Start: 52 @29924 has 11 MA's), (57, 29990), (58, 29993),

Gene: Eklok_43 Start: 29723, Stop: 29887, Start Num: 52
Candidate Starts for Eklok_43:
(12, 28763), (15, 28784), (25, 29147), (33, 29282), (44, 29609), (Start: 52 @29723 has 11 MA's), (57, 29789), (58, 29792),

Gene: FrumpyGal_44 Start: 29924, Stop: 30088, Start Num: 52
Candidate Starts for FrumpyGal_44:

(11, 28913), (25, 29348), (26, 29351), (28, 29417), (34, 29486), (44, 29810), (Start: 52 @29924 has 11 MA's), (57, 29990), (58, 29993),

Gene: HFrancette_44 Start: 30702, Stop: 30866, Start Num: 52
Candidate Starts for HFrancette_44:
(11, 29691), (25, 30126), (26, 30129), (28, 30195), (34, 30264), (44, 30588), (Start: 52 @30702 has 11 MA's), (57, 30768), (58, 30771),

Gene: Ididsumtinwong_45 Start: 29698, Stop: 29886, Start Num: 50
Candidate Starts for Ididsumtinwong_45:
(4, 28513), (5, 28516), (6, 28549), (9, 28657), (10, 28678), (24, 29104), (27, 29185), (43, 29566), (46, 29605), (Start: 50 @29698 has 5 MA's), (55, 29767), (59, 29794), (64, 29848),

Gene: Ignacio_43 Start: 30605, Stop: 30769, Start Num: 52
Candidate Starts for Ignacio_43:
(11, 29594), (25, 30029), (26, 30032), (28, 30098), (34, 30167), (44, 30491), (Start: 52 @30605 has 11 MA's), (57, 30671), (58, 30674),

Gene: Lishka_41 Start: 27402, Stop: 27590, Start Num: 50
Candidate Starts for Lishka_41:
(Start: 50 @27402 has 5 MA's), (56, 27480), (64, 27552),

Gene: Mojorita_44 Start: 30457, Stop: 30630, Start Num: 51
Candidate Starts for Mojorita_44:
(30, 29977), (32, 29995), (35, 30115), (36, 30124), (38, 30256), (40, 30268), (Start: 51 @30457 has 9 MA's), (54, 30484), (65, 30604),

Gene: PapayaSalad_43 Start: 29988, Stop: 30176, Start Num: 50
Candidate Starts for PapayaSalad_43:
(4, 28803), (5, 28806), (6, 28839), (9, 28947), (10, 28968), (21, 29271), (24, 29394), (27, 29475), (43, 29856), (46, 29895), (Start: 50 @29988 has 5 MA's), (55, 30057), (59, 30084), (64, 30138),

Gene: Picard_44 Start: 30655, Stop: 30828, Start Num: 51
Candidate Starts for Picard_44:
(30, 30175), (32, 30193), (35, 30313), (36, 30322), (38, 30454), (40, 30466), (Start: 51 @30655 has 9 MA's), (54, 30682), (65, 30802),

Gene: Piccadilly_43 Start: 29923, Stop: 30087, Start Num: 52
Candidate Starts for Piccadilly_43:
(11, 28912), (25, 29347), (26, 29350), (28, 29416), (34, 29485), (44, 29809), (Start: 52 @29923 has 11 MA's), (57, 29989), (58, 29992),

Gene: Raleigh_42 Start: 33159, Stop: 33329, Start Num: 51
Candidate Starts for Raleigh_42:
(32, 32784), (37, 32922), (47, 33117), (Start: 51 @33159 has 9 MA's), (53, 33162), (60, 33240), (63, 33273),

Gene: SPB78_59 Start: 40199, Stop: 40402, Start Num: 48
Candidate Starts for SPB78_59:
(19, 39398), (25, 39668), (29, 39743), (31, 39776), (41, 40079), (42, 40088), (45, 40112), (48, 40199), (49, 40211), (61, 40316),

Gene: SV1_41 Start: 29360, Stop: 29527, Start Num: 51

Candidate Starts for SV1_41:
(30, 28880), (32, 28898), (35, 29018), (38, 29159), (39, 29168), (Start: 51 @29360 has 9 MA's), (62, 29462),

Gene: Schlegelian_44 Start: 30473, Stop: 30637, Start Num: 52
Candidate Starts for Schlegelian_44:
(11, 29477), (25, 29912), (26, 29915), (28, 29981), (33, 30047), (44, 30359), (Start: 52 @30473 has 11 MA's), (57, 30539), (58, 30542),

Gene: SoJo_42 Start: 31195, Stop: 31335, Start Num: 51
Candidate Starts for SoJo_42:
(14, 30244), (16, 30274), (17, 30289), (18, 30307), (20, 30430), (30, 30715), (32, 30733), (35, 30853), (36, 30862), (38, 30994), (39, 31003), (Start: 51 @31195 has 9 MA's),

Gene: ToastyFinz_41 Start: 31997, Stop: 32158, Start Num: 51
Candidate Starts for ToastyFinz_41:
(16, 31067), (20, 31223), (30, 31517), (32, 31535), (35, 31655), (36, 31664), (38, 31796), (39, 31805), (Start: 51 @31997 has 9 MA's),

Gene: Tubberson_42 Start: 31197, Stop: 31337, Start Num: 51
Candidate Starts for Tubberson_42:
(14, 30246), (16, 30276), (17, 30291), (18, 30309), (20, 30432), (30, 30717), (32, 30735), (35, 30855), (36, 30864), (38, 30996), (39, 31005), (Start: 51 @31197 has 9 MA's),

Gene: Vondra_42 Start: 29775, Stop: 29939, Start Num: 52
Candidate Starts for Vondra_42:
(1, 28443), (7, 28674), (25, 29199), (26, 29202), (28, 29268), (34, 29337), (44, 29661), (Start: 52 @29775 has 11 MA's), (57, 29841), (58, 29844),