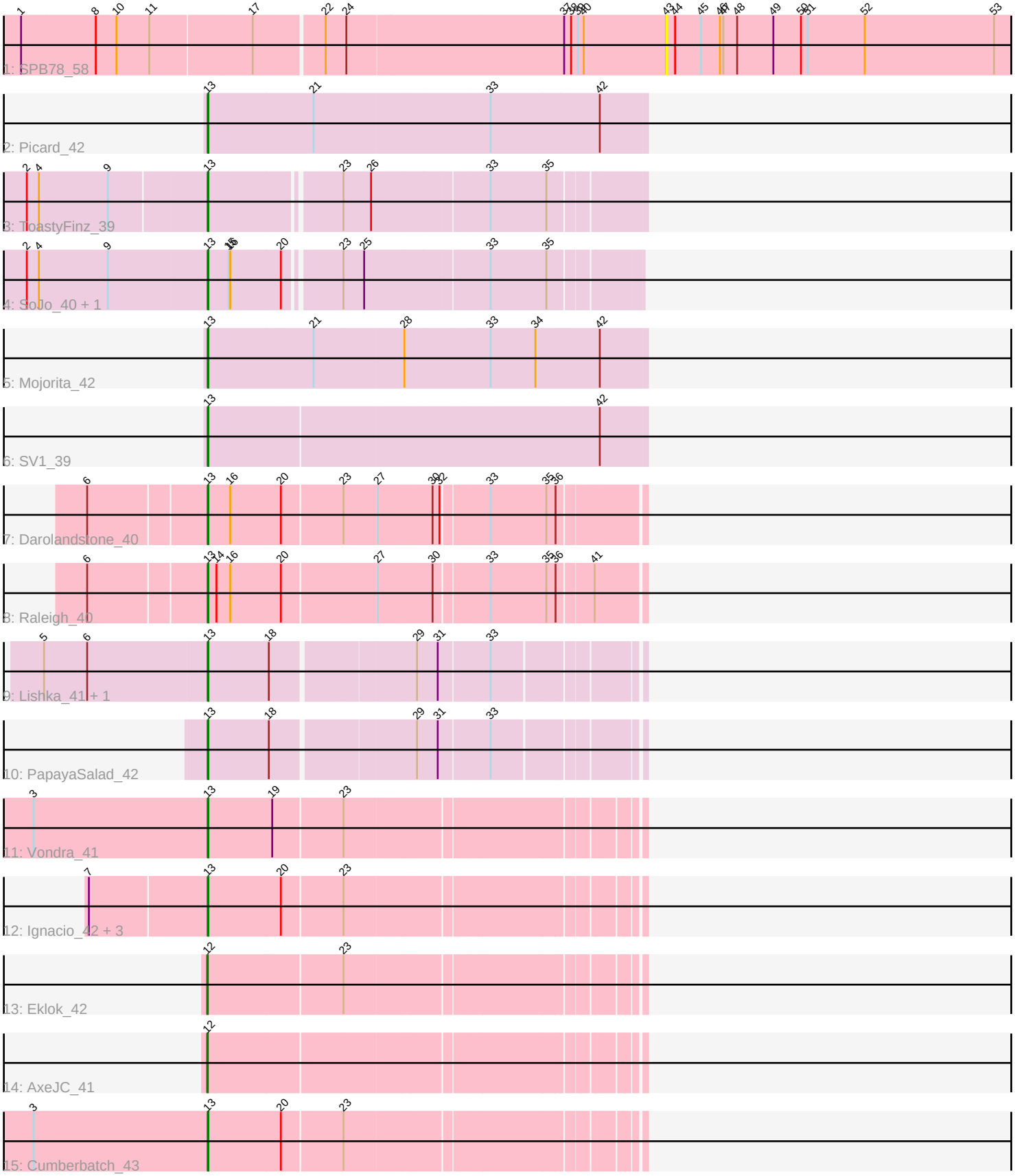
Pham 224889


1: SPB78_58
2: Picard_42
3: ToastyFinz_39
4: SoJo_40 + 1
5: Mojorita_42
6: SV1_39
7: Darolandstone_40
8: Raleigh_40
9: Lishka_41 + 1
10: PapayaSalad_42
11: Vondra_41
12: Ignacio_42 + 3
13: Eklok_42
14: AxeJC_41
15: Cumberbatch_43

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 224889 Report

This analysis was run 03/28/25 on database version 593.

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 224889 has 20 members, 2 are drafts.

Phages represented in each track:
- Track 1 : SPB78_58
- Track 2 : Picard_42
- Track 3 : ToastyFinz_39
- Track 4 : SoJo_40, Tubberson_40
- Track 5 : Mojorita_42
- Track 6 : SV1_39
- Track 7 : Darolandstone_40
- Track 8 : Raleigh_40
- Track 9 : Lishka_41, Austintatious_40
- Track 10 : PapayaSalad_42
- Track 11 : Vondra_41
- Track 12 : Ignacio_42, Eastland_42, Piccadilly_42, HFrancette_43
- Track 13 : Eklok_42
- Track 14 : AxeJC_41
- Track 15 : Cumberbatch_43

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

The start number called the most often in the published annotations is 13, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Austintatious_40, Cumberbatch_43, Darolandstone_40, Eastland_42, HFrancette_43, Ignacio_42, Lishka_41, Mojorita_42, PapayaSalad_42, Picard_42, Piccadilly_42, Raleigh_40, SV1_39, SoJo_40, ToastyFinz_39, Tubberson_40, 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 12:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AxeJC_41 (BP), Eklok_42 (BP),

Start 13:
• Found in 17 of 20 (85.0%) of genes in pham
• Manual Annotations of this start: 16 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_40 (BC3), Cumberbatch_43 (BP), Darolandstone_40 (BC2), Eastland_42 (BP), HFrancette_43 (BP), Ignacio_42 (BP), Lishka_41 (BC3), Mojorita_42 (BC1), PapayaSalad_42 (BC3), Picard_42 (BC1), Piccadilly_42 (BP), Raleigh_40 (BC2), SV1_39 (BC1), SoJo_40 (BC1), ToastyFinz_39 (BC1), Tubberson_40 (BC1), Vondra_41 (BP),

Start 43:
• Found in 1 of 20 (5.0%) 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 13 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 13 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 13 was manually annotated 2 times for cluster BC3.

Info for manual annotations of cluster BP:
•Start number 12 was manually annotated 2 times for cluster BP.
•Start number 13 was manually annotated 6 times for cluster BP.

Gene Information:

Gene: Austintatious_40 Start: 26725, Stop: 27405, Start Num: 13
Candidate Starts for Austintatious_40:
(5, 26443), (6, 26518), (Start: 13 @26725 has 16 MA's), (18, 26830), (29, 27061), (31, 27097), (33, 27178),

Gene: AxeJC_41 Start: 28989, Stop: 29669, Start Num: 12
Candidate Starts for AxeJC_41:
(Start: 12 @28989 has 2 MA's),

Gene: Cumberbatch_43 Start: 29287, Stop: 29967, Start Num: 13
Candidate Starts for Cumberbatch_43:
(3, 28987), (Start: 13 @29287 has 16 MA's), (20, 29410), (23, 29512),

Gene: Darolandstone_40 Start: 31614, Stop: 32318, Start Num: 13
Candidate Starts for Darolandstone_40:
(6, 31419), (Start: 13 @31614 has 16 MA's), (16, 31653), (20, 31737), (23, 31839), (27, 31896), (30, 31989), (32, 32001), (33, 32073), (35, 32169), (36, 32184),

Gene: Eastland_42 Start: 29247, Stop: 29927, Start Num: 13
Candidate Starts for Eastland_42:
(7, 29049), (Start: 13 @29247 has 16 MA's), (20, 29370), (23, 29472),

Gene: Eklok_42 Start: 29046, Stop: 29726, Start Num: 12
Candidate Starts for Eklok_42:
(Start: 12 @29046 has 2 MA's), (23, 29271),

Gene: HFrancette_43 Start: 30025, Stop: 30705, Start Num: 13
Candidate Starts for HFrancette_43:
(7, 29827), (Start: 13 @30025 has 16 MA's), (20, 30148), (23, 30250),

Gene: Ignacio_42 Start: 29928, Stop: 30608, Start Num: 13
Candidate Starts for Ignacio_42:
(7, 29730), (Start: 13 @29928 has 16 MA's), (20, 30051), (23, 30153),

Gene: Lishka_41 Start: 26725, Stop: 27405, Start Num: 13
Candidate Starts for Lishka_41:
(5, 26443), (6, 26518), (Start: 13 @26725 has 16 MA's), (18, 26830), (29, 27061), (31, 27097), (33, 27178),

Gene: Mojorita_42 Start: 29163, Stop: 29900, Start Num: 13
Candidate Starts for Mojorita_42:
(Start: 13 @29163 has 16 MA's), (21, 29343), (28, 29496), (33, 29634), (34, 29712), (42, 29820),

Gene: PapayaSalad_42 Start: 29311, Stop: 29991, Start Num: 13
Candidate Starts for PapayaSalad_42:
(Start: 13 @29311 has 16 MA's), (18, 29416), (29, 29647), (31, 29683), (33, 29764),

Gene: Picard_42 Start: 29361, Stop: 30098, Start Num: 13
Candidate Starts for Picard_42:
(Start: 13 @29361 has 16 MA's), (21, 29541), (33, 29832), (42, 30018),

Gene: Piccadilly_42 Start: 29246, Stop: 29926, Start Num: 13
Candidate Starts for Piccadilly_42:
(7, 29048), (Start: 13 @29246 has 16 MA's), (20, 29369), (23, 29471),

Gene: Raleigh_40 Start: 31982, Stop: 32686, Start Num: 13
Candidate Starts for Raleigh_40:

(6, 31787), (Start: 13 @31982 has 16 MA's), (14, 31997), (16, 32021), (20, 32105), (27, 32264), (30, 32357), (33, 32441), (35, 32537), (36, 32552), (41, 32606),

Gene: SPB78_58 Start: 39567, Stop: 40202, Start Num: 43
Candidate Starts for SPB78_58:
(1, 38469), (8, 38598), (10, 38634), (11, 38691), (17, 38865), (22, 38982), (24, 39018), (37, 39390), (38, 39402), (39, 39414), (40, 39423), (43, 39567), (44, 39582), (45, 39627), (46, 39660), (47, 39666), (48, 39690), (49, 39753), (50, 39801), (51, 39813), (52, 39912), (53, 40137),

Gene: SV1_39 Start: 28072, Stop: 28803, Start Num: 13
Candidate Starts for SV1_39:
(Start: 13 @28072 has 16 MA's), (42, 28723),

Gene: SoJo_40 Start: 29952, Stop: 30641, Start Num: 13
Candidate Starts for SoJo_40:
(2, 29640), (4, 29661), (9, 29781), (Start: 13 @29952 has 16 MA's), (15, 29988), (16, 29991), (20, 30075), (23, 30162), (25, 30198), (33, 30405), (35, 30501),

Gene: ToastyFinz_39 Start: 30745, Stop: 31443, Start Num: 13
Candidate Starts for ToastyFinz_39:
(2, 30439), (4, 30460), (9, 30580), (Start: 13 @30745 has 16 MA's), (23, 30955), (26, 31003), (33, 31198), (35, 31294),

Gene: Tubberson_40 Start: 29954, Stop: 30643, Start Num: 13
Candidate Starts for Tubberson_40:
(2, 29642), (4, 29663), (9, 29783), (Start: 13 @29954 has 16 MA's), (15, 29990), (16, 29993), (20, 30077), (23, 30164), (25, 30200), (33, 30407), (35, 30503),

Gene: Vondra_41 Start: 29098, Stop: 29778, Start Num: 13
Candidate Starts for Vondra_41:
(3, 28798), (Start: 13 @29098 has 16 MA's), (19, 29209), (23, 29323),