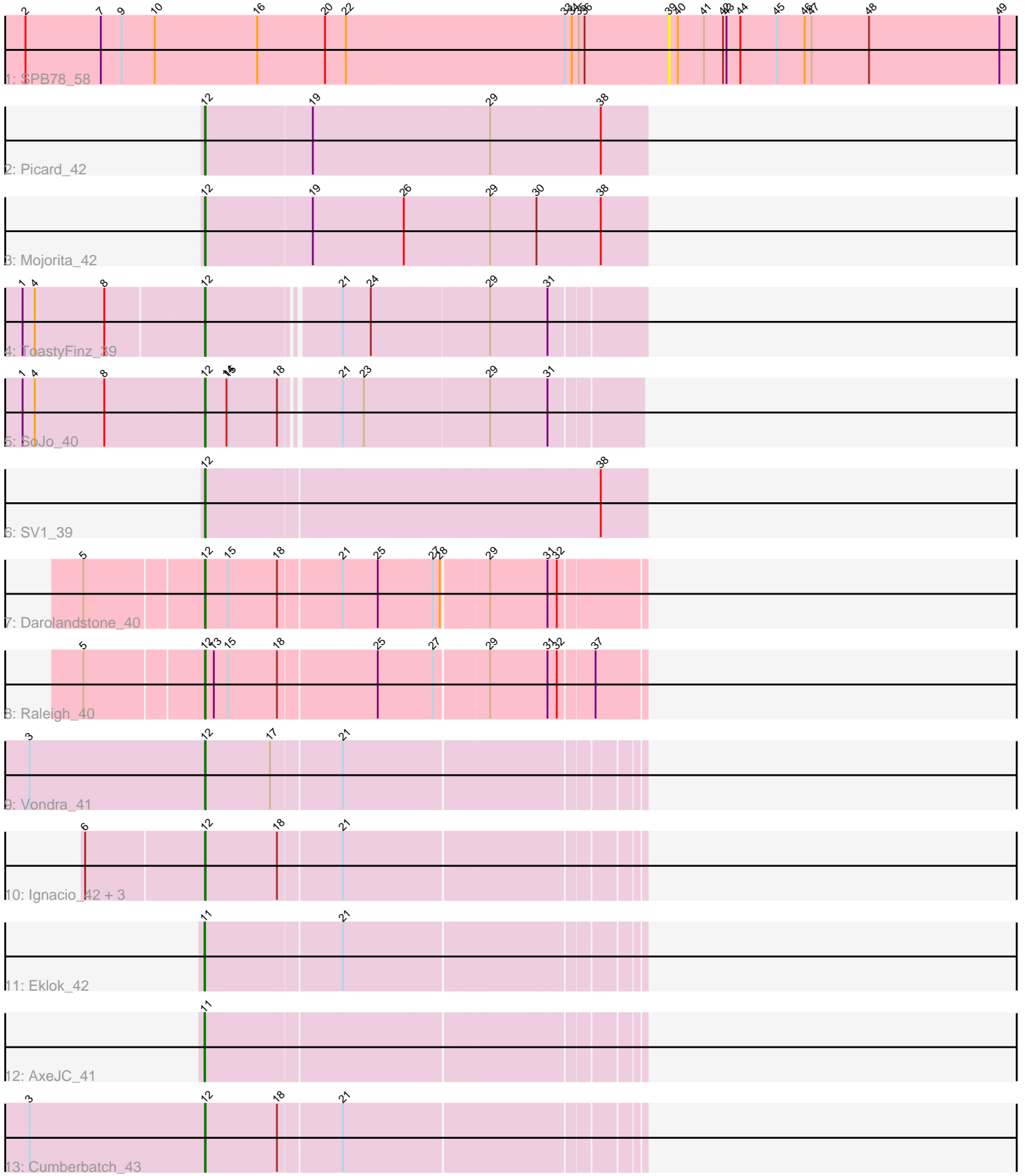# Pham 158232

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 158232 Report

This analysis was run 04/13/24 on database version 558.

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 158232 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : SPB78_58
• Track 2 : Picard_42
• Track 3 : Mojorita_42
• Track 4 : ToastyFinz_39
• Track 5 : SoJo_40
• Track 6 : SV1_39
• Track 7 : Darolandstone_40
• Track 8 : Raleigh_40
• Track 9 : Vondra_41
• Track 10 : Ignacio_42, Piccadilly_42, Eastland_42, HFrancette_43
• Track 11 : Eklok_42
• Track 12 : AxeJC_41
• Track 13 : 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 12, it was called in 13 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cumberbatch_43, Darolandstone_40, Eastland_42, HFrancette_43, Ignacio_42, Mojorita_42, Picard_42, Piccadilly_42, Raleigh_40, SV1_39, SoJo_40, ToastyFinz_39, 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 11:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AxeJC_41 (BP), Eklok_42 (BP),

Start 12:
• Found in 13 of 16 (81.2%) of genes in pham
• Manual Annotations of this start: 13 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cumberbatch_43 (BP), Darolandstone_40 (BC2), Eastland_42 (BP), HFrancette_43 (BP), Ignacio_42 (BP), Mojorita_42 (BC1), Picard_42 (BC1), Piccadilly_42 (BP), Raleigh_40 (BC2), SV1_39 (BC1), SoJo_40 (BC1), ToastyFinz_39 (BC1), Vondra_41 (BP),

Start 39:
• Found in 1 of 16 (6.2%) 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 4 clusters represented in this pham: BP, BC1, BC2, BA,

Info for manual annotations of cluster BC1:
•Start number 12 was manually annotated 5 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 12 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BP:
•Start number 11 was manually annotated 2 times for cluster BP.
•Start number 12 was manually annotated 6 times for cluster BP.

Gene Information:
Gene: AxeJC_41 Start: 28989, Stop: 29669, Start Num: 11
Candidate Starts for AxeJC_41:
(Start: 11 @28989 has 2 MA's),

Gene: Cumberbatch_43 Start: 29287, Stop: 29967, Start Num: 12
Candidate Starts for Cumberbatch_43:
(3, 28987), (Start: 12 @29287 has 13 MA's), (18, 29410), (21, 29512),

Gene: Darolandstone_40 Start: 31614, Stop: 32318, Start Num: 12
Candidate Starts for Darolandstone_40:

(5, 31419), (Start: 12 @31614 has 13 MA's), (15, 31653), (18, 31737), (21, 31839), (25, 31896), (27, 31989), (28, 32001), (29, 32073), (31, 32169), (32, 32184),

Gene: Eastland_42 Start: 29247, Stop: 29927, Start Num: 12
Candidate Starts for Eastland_42:
(6, 29049), (Start: 12 @29247 has 13 MA's), (18, 29370), (21, 29472),

Gene: Eklok_42 Start: 29046, Stop: 29726, Start Num: 11
Candidate Starts for Eklok_42:
(Start: 11 @29046 has 2 MA's), (21, 29271),

Gene: HFrancette_43 Start: 30025, Stop: 30705, Start Num: 12
Candidate Starts for HFrancette_43:
(6, 29827), (Start: 12 @30025 has 13 MA's), (18, 30148), (21, 30250),

Gene: Ignacio_42 Start: 29928, Stop: 30608, Start Num: 12
Candidate Starts for Ignacio_42:
(6, 29730), (Start: 12 @29928 has 13 MA's), (18, 30051), (21, 30153),

Gene: Mojorita_42 Start: 29163, Stop: 29900, Start Num: 12
Candidate Starts for Mojorita_42:
(Start: 12 @29163 has 13 MA's), (19, 29343), (26, 29496), (29, 29634), (30, 29712), (38, 29820),

Gene: Picard_42 Start: 29361, Stop: 30098, Start Num: 12
Candidate Starts for Picard_42:
(Start: 12 @29361 has 13 MA's), (19, 29541), (29, 29832), (38, 30018),

Gene: Piccadilly_42 Start: 29246, Stop: 29926, Start Num: 12
Candidate Starts for Piccadilly_42:
(6, 29048), (Start: 12 @29246 has 13 MA's), (18, 29369), (21, 29471),

Gene: Raleigh_40 Start: 31982, Stop: 32686, Start Num: 12
Candidate Starts for Raleigh_40:
(5, 31787), (Start: 12 @31982 has 13 MA's), (13, 31997), (15, 32021), (18, 32105), (25, 32264), (27, 32357), (29, 32441), (31, 32537), (32, 32552), (37, 32606),

Gene: SPB78_58 Start: 39567, Stop: 40202, Start Num: 39
Candidate Starts for SPB78_58:
(2, 38469), (7, 38598), (9, 38634), (10, 38691), (16, 38865), (20, 38982), (22, 39018), (33, 39390), (34, 39402), (35, 39414), (36, 39423), (39, 39567), (40, 39582), (41, 39627), (42, 39660), (43, 39666), (44, 39690), (45, 39753), (46, 39801), (47, 39813), (48, 39912), (49, 40137),

Gene: SV1_39 Start: 28072, Stop: 28803, Start Num: 12
Candidate Starts for SV1_39:
(Start: 12 @28072 has 13 MA's), (38, 28723),

Gene: SoJo_40 Start: 29952, Stop: 30641, Start Num: 12
Candidate Starts for SoJo_40:
(1, 29640), (4, 29661), (8, 29781), (Start: 12 @29952 has 13 MA's), (14, 29988), (15, 29991), (18, 30075), (21, 30162), (23, 30198), (29, 30405), (31, 30501),

Gene: ToastyFinz_39 Start: 30745, Stop: 31443, Start Num: 12
Candidate Starts for ToastyFinz_39:

(1, 30439), (4, 30460), (8, 30580), (Start: 12 @30745 has 13 MA's), (21, 30955), (24, 31003), (29, 31198), (31, 31294),

Gene: Vondra_41 Start: 29098, Stop: 29778, Start Num: 12
Candidate Starts for Vondra_41:
(3, 28798), (Start: 12 @29098 has 13 MA's), (17, 29209), (21, 29323),