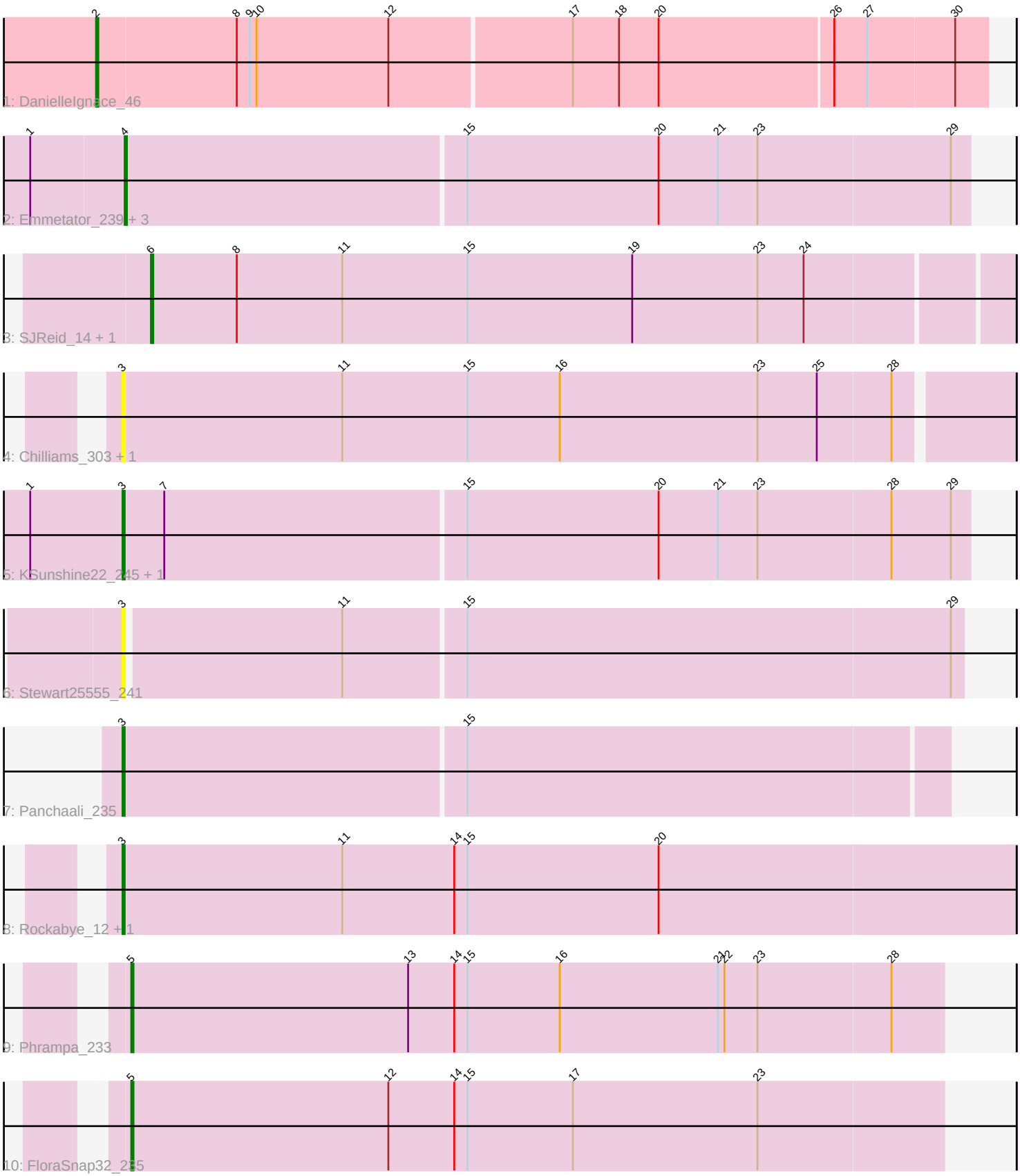
Pham 333311


2
8
9
10
12
17
18
20
26
27
30
1: DanielleIgnace_46
1
4
15
20
21
23
29
2: Emmetator_239 + 3
6
8
11
15
19
23
24
3: SJReid_14 + 1
3
11
15
16
23
25
28
4: Chilliams_303 + 1
1
3
7
15
20
21
23
28
29
5: KSunshine22_245 + 1
3
11
15
29
6: Stewart25555_241
3
15
7: Panchaali_235
3
11
14
15
20
8: Rockabye_12 + 1
5
13
14
15
16
21
22
23
28
9: Phrampa_233
5
12
14
15
17
23
10: FloraSnap32_235

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 333311 Report

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

Pham number 333311 has 17 members, 5 are drafts.

Phages represented in each track:
• Track 1 : DanielleIgnace_46
• Track 2 : Emmetator_239, BooTeria_236, WaddleDee_237, DunneganBoMo_239
• Track 3 : SJReid_14, SJReid_323
• Track 4 : Chilliams_303, Chilliams_12
• Track 5 : KSunshine22_245, Artu_239
• Track 6 : Stewart25555_241
• Track 7 : Panchaali_235
• Track 8 : Rockabye_12, Rockabye_309
• Track 9 : Phrampa_233
• Track 10 : FloraSnap32_235

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_239, Chilliams_12, Chilliams_303, KSunshine22_245, Panchaali_235, Rockabye_12, Rockabye_309, Stewart25555_241,

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

Genes that do not have the "Most Annotated" start:
• BooTeria_236, DanielleIgnace_46, DunneganBoMo_239, Emmetator_239, FloraSnap32_235, Phrampa_233, SJReid_14, SJReid_323, WaddleDee_237,

Summary by start number:

Start 2:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DanielleIgnace_46 (AT),

Start 3:
• Found in 8 of 17 (47.1%) of genes in pham
• Manual Annotations of this start: 4 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_239 (FC), Chilliams_12 (FC), Chilliams_303 (FC), KSunshine22_245 (FC), Panchaali_235 (FC), Rockabye_12 (FC), Rockabye_309 (FC), Stewart25555_241 (FC),

Start 4:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BooTeria_236 (FC), DunneganBoMo_239 (FC), Emmetator_239 (FC), WaddleDee_237 (FC),

Start 5:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FloraSnap32_235 (FC), Phrampa_233 (FC),

Start 6:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_14 (FC), SJReid_323 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: FC, AT,

Info for manual annotations of cluster AT:
•Start number 2 was manually annotated 1 time for cluster AT.

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 4 times for cluster FC.
•Start number 4 was manually annotated 3 times for cluster FC.
•Start number 5 was manually annotated 2 times for cluster FC.
•Start number 6 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: Artu_239 Start: 161161, Stop: 161541, Start Num: 3
Candidate Starts for Artu_239:
(1, 161119), (Start: 3 @161161 has 4 MA's), (7, 161179), (15, 161314), (20, 161401), (21, 161428), (23, 161446), (28, 161506), (29, 161533),

Gene: BooTeria_236 Start: 159663, Stop: 160043, Start Num: 4
Candidate Starts for BooTeria_236:

(1, 159621), (Start: 4 @159663 has 3 MA's), (15, 159816), (20, 159903), (21, 159930), (23, 159948), (29, 160035),

Gene: Chilliams_303 Start: 178506, Stop: 178904, Start Num: 3
Candidate Starts for Chilliams_303:
(Start: 3 @178506 has 4 MA's), (11, 178605), (15, 178662), (16, 178704), (23, 178794), (25, 178821), (28, 178854),

Gene: Chilliams_12 Start: 5772, Stop: 6170, Start Num: 3
Candidate Starts for Chilliams_12:
(Start: 3 @5772 has 4 MA's), (11, 5871), (15, 5928), (16, 5970), (23, 6060), (25, 6087), (28, 6120),

Gene: DanielleIgnace_46 Start: 33504, Stop: 33902, Start Num: 2
Candidate Starts for DanielleIgnace_46:
(Start: 2 @33504 has 1 MA's), (8, 33567), (9, 33573), (10, 33576), (12, 33636), (17, 33717), (18, 33738), (20, 33756), (26, 33834), (27, 33849), (30, 33888),

Gene: DunneganBoMo_239 Start: 159767, Stop: 160147, Start Num: 4
Candidate Starts for DunneganBoMo_239:
(1, 159725), (Start: 4 @159767 has 3 MA's), (15, 159920), (20, 160007), (21, 160034), (23, 160052), (29, 160139),

Gene: Emmetator_239 Start: 158542, Stop: 158922, Start Num: 4
Candidate Starts for Emmetator_239:
(1, 158500), (Start: 4 @158542 has 3 MA's), (15, 158695), (20, 158782), (21, 158809), (23, 158827), (29, 158914),

Gene: FloraSnap32_235 Start: 154670, Stop: 155038, Start Num: 5
Candidate Starts for FloraSnap32_235:
(Start: 5 @154670 has 2 MA's), (12, 154787), (14, 154817), (15, 154823), (17, 154871), (23, 154955),

Gene: KSunshine22_245 Start: 159166, Stop: 159546, Start Num: 3
Candidate Starts for KSunshine22_245:
(1, 159124), (Start: 3 @159166 has 4 MA's), (7, 159184), (15, 159319), (20, 159406), (21, 159433), (23, 159451), (28, 159511), (29, 159538),

Gene: Panchaali_235 Start: 158660, Stop: 159028, Start Num: 3
Candidate Starts for Panchaali_235:
(Start: 3 @158660 has 4 MA's), (15, 158813),

Gene: Phrampa_233 Start: 157405, Stop: 157773, Start Num: 5
Candidate Starts for Phrampa_233:
(Start: 5 @157405 has 2 MA's), (13, 157531), (14, 157552), (15, 157558), (16, 157600), (21, 157672), (22, 157675), (23, 157690), (28, 157750),

Gene: Rockabye_12 Start: 6217, Stop: 6621, Start Num: 3
Candidate Starts for Rockabye_12:
(Start: 3 @6217 has 4 MA's), (11, 6316), (14, 6367), (15, 6373), (20, 6460),

Gene: Rockabye_309 Start: 178830, Stop: 179234, Start Num: 3
Candidate Starts for Rockabye_309:
(Start: 3 @178830 has 4 MA's), (11, 178929), (14, 178980), (15, 178986), (20, 179073),

Gene: SJReid_14 Start: 6594, Stop: 6980, Start Num: 6
Candidate Starts for SJReid_14:
(Start: 6 @6594 has 2 MA's), (8, 6633), (11, 6681), (15, 6738), (19, 6813), (23, 6870), (24, 6891),

Gene: SJReid_323 Start: 179433, Stop: 179819, Start Num: 6
Candidate Starts for SJReid_323:
(Start: 6 @179433 has 2 MA's), (8, 179472), (11, 179520), (15, 179577), (19, 179652), (23, 179709), (24, 179730),

Gene: Stewart25555_241 Start: 158047, Stop: 158421, Start Num: 3
Candidate Starts for Stewart25555_241:
(Start: 3 @158047 has 4 MA's), (11, 158143), (15, 158197), (29, 158416),

Gene: WaddleDee_237 Start: 159300, Stop: 159680, Start Num: 4
Candidate Starts for WaddleDee_237:
(1, 159258), (Start: 4 @159300 has 3 MA's), (15, 159453), (20, 159540), (21, 159567), (23, 159585), (29, 159672),