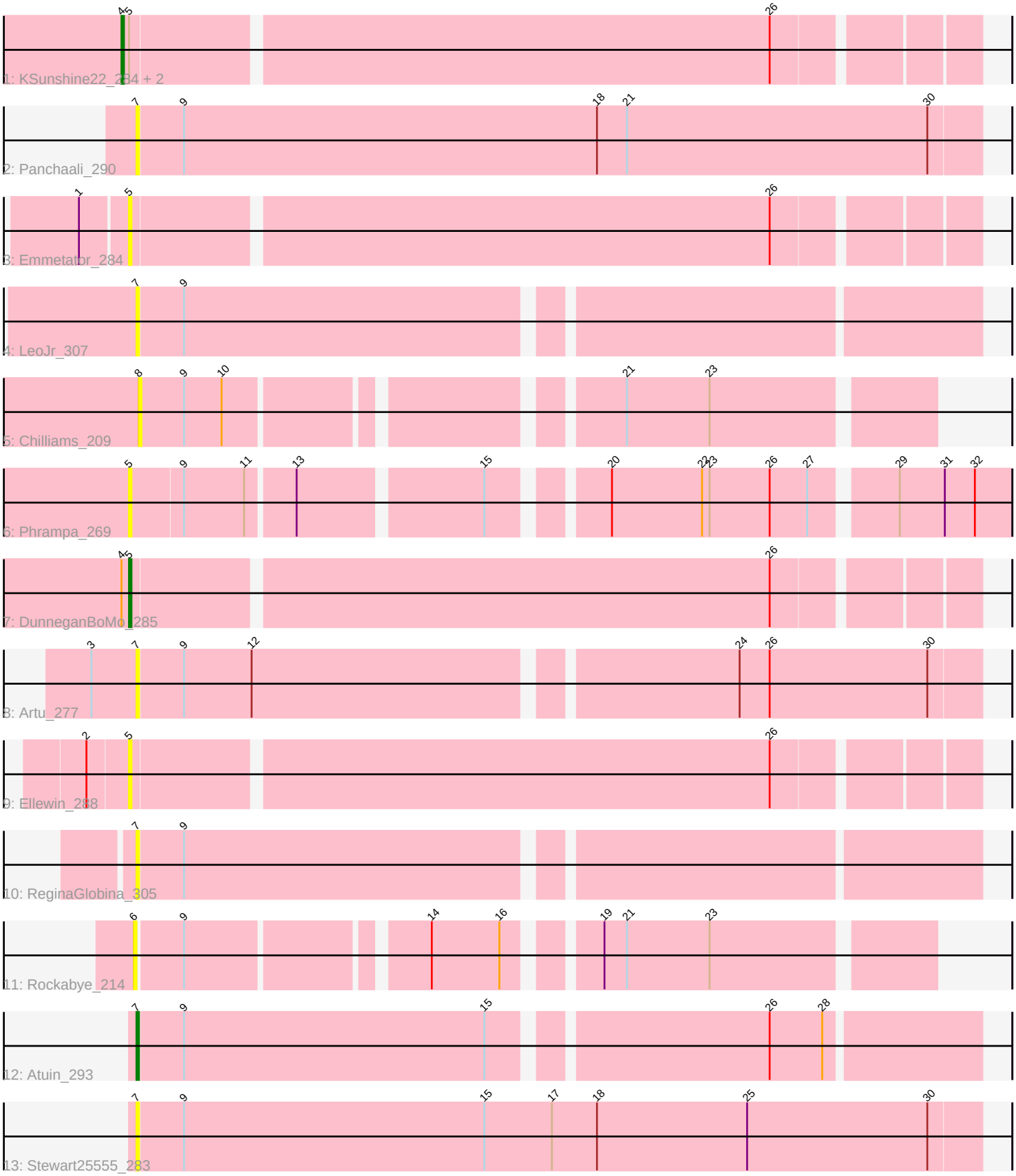
# Pham 276670


4
5
26
1: KSunshine22_284 + 2
7
9
18
21
30
2: Panchaali_290
1
5
26
3: Emmetator_284
7
9
4: LeoJr_307
8
9
10
21
23
5: Chilliams_209
5
9
11
13
15
20
22
23
26
27
29
31
32
6: Phrampa_269
4
5
26
7: DunneganBoMo_285
3
7
9
12
24
26
30
8: Artu_277
2
5
26
9: Ellewin_288
7
9
10: ReginaGlobina_305
6
9
14
16
19
21
23
11: Rockabye_214
7
9
15
26
28
12: Atuin_293
7
9
15
17
18
25
30
13: Stewart25555_283

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 276670 Report

This analysis was run 02/07/26 on database version 634.

Pham number 276670 has 15 members, 12 are drafts.

Phages represented in each track:
• Track 1 : KSunshine22_284, BooTeria_289, WaddleDee_281
• Track 2 : Panchaali_290
• Track 3 : Emmetator_284
• Track 4 : LeoJr_307
• Track 5 : Chilliams_209
• Track 6 : Phrampa_269
• Track 7 : DunneganBoMo_285
• Track 8 : Artu_277
• Track 9 : Ellewin_288
• Track 10 : ReginaGlobina_305
• Track 11 : Rockabye_214
• Track 12 : Atuin_293
• Track 13 : Stewart25555_283

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

The start number called the most often in the published annotations is 4, it was called in 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BooTeria_289, KSunshine22_284, WaddleDee_281,

Genes that have the "Most Annotated" start but do not call it:
• DunneganBoMo_285,

Genes that do not have the "Most Annotated" start:
• Artu_277, Atuin_293, Chilliams_209, Ellewin_288, Emmetator_284, LeoJr_307, Panchaali_290, Phrampa_269, ReginaGlobina_305, Rockabye_214, Stewart25555_283,

**Summary by start number:**

Start 4:
• Found in 4 of 15 ( 26.7% ) of genes in pham

• Manual Annotations of this start: 1 of 3
• Called 75.0% of time when present
• Phage (with cluster) where this start called: BooTeria_289 (FC), KSunshine22_284 (FC), WaddleDee_281 (FC),

Start 5:
• Found in 7 of 15 ( 46.7% ) of genes in pham
• Manual Annotations of this start: 1 of 3
• Called 57.1% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_285 (FC), Ellewin_288 (FC), Emmetator_284 (FC), Phrampa_269 (FC),

Start 6:
• Found in 1 of 15 ( 6.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rockabye_214 (FC),

Start 7:
• Found in 6 of 15 ( 40.0% ) of genes in pham
• Manual Annotations of this start: 1 of 3
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_277 (FC), Atuin_293 (FC), LeoJr_307 (FC), Panchaali_290 (FC), ReginaGlobina_305 (FC), Stewart25555_283 (FC),

Start 8:
• Found in 1 of 15 ( 6.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_209 (FC),

**Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 4 was manually annotated 1 time for cluster FC.
•Start number 5 was manually annotated 1 time for cluster FC.
•Start number 7 was manually annotated 1 time for cluster FC.

***Gene Information:***

Gene: Artu_277 Start: 175290, Stop: 175613, Start Num: 7
Candidate Starts for Artu_277:
(3, 175272), (Start: 7 @175290 has 1 MA's), (9, 175308), (12, 175335), (24, 175518), (26, 175530), (30, 175593),

Gene: Atuin_293 Start: 174141, Stop: 174461, Start Num: 7
Candidate Starts for Atuin_293:
(Start: 7 @174141 has 1 MA's), (9, 174159), (15, 174279), (26, 174381), (28, 174402),

Gene: BooTeria_289 Start: 175117, Stop: 175443, Start Num: 4
Candidate Starts for BooTeria_289:
(Start: 4 @175117 has 1 MA's), (Start: 5 @175120 has 1 MA's), (26, 175369),

Gene: Chilliams_209 Start: 141089, Stop: 141376, Start Num: 8
Candidate Starts for Chilliams_209:
(8, 141089), (9, 141107), (10, 141122), (21, 141260), (23, 141293),

Gene: DunneganBoMo_285 Start: 175622, Stop: 175945, Start Num: 5
Candidate Starts for DunneganBoMo_285:
(Start: 4 @175619 has 1 MA's), (Start: 5 @175622 has 1 MA's), (26, 175871),

Gene: Ellewin_288 Start: 175052, Stop: 175375, Start Num: 5
Candidate Starts for Ellewin_288:
(2, 175037), (Start: 5 @175052 has 1 MA's), (26, 175301),

Gene: Emmetator_284 Start: 174511, Stop: 174834, Start Num: 5
Candidate Starts for Emmetator_284:
(1, 174493), (Start: 5 @174511 has 1 MA's), (26, 174760),

Gene: KSunshine22_284 Start: 173837, Stop: 174163, Start Num: 4
Candidate Starts for KSunshine22_284:
(Start: 4 @173837 has 1 MA's), (Start: 5 @173840 has 1 MA's), (26, 174089),

Gene: LeoJr_307 Start: 174856, Stop: 175176, Start Num: 7
Candidate Starts for LeoJr_307:
(Start: 7 @174856 has 1 MA's), (9, 174874),

Gene: Panchaali_290 Start: 175339, Stop: 175674, Start Num: 7
Candidate Starts for Panchaali_290:
(Start: 7 @175339 has 1 MA's), (9, 175357), (18, 175522), (21, 175534), (30, 175654),

Gene: Phrampa_269 Start: 169842, Stop: 170165, Start Num: 5
Candidate Starts for Phrampa_269:
(Start: 5 @169842 has 1 MA's), (9, 169863), (11, 169887), (13, 169905), (15, 169974), (20, 170013), (22, 170049), (23, 170052), (26, 170076), (27, 170091), (29, 170121), (31, 170139), (32, 170151),

Gene: ReginaGlobina_305 Start: 175000, Stop: 175320, Start Num: 7
Candidate Starts for ReginaGlobina_305:
(Start: 7 @175000 has 1 MA's), (9, 175018),

Gene: Rockabye_214 Start: 139721, Stop: 140008, Start Num: 6
Candidate Starts for Rockabye_214:
(6, 139721), (9, 139739), (14, 139826), (16, 139853), (19, 139883), (21, 139892), (23, 139925),

Gene: Stewart25555_283 Start: 174580, Stop: 174915, Start Num: 7
Candidate Starts for Stewart25555_283:
(Start: 7 @174580 has 1 MA's), (9, 174598), (15, 174718), (17, 174745), (18, 174763), (25, 174823), (30, 174895),

Gene: WaddleDee_281 Start: 174403, Stop: 174729, Start Num: 4
Candidate Starts for WaddleDee_281:

(Start: 4 @174403 has 1 MA's), (Start: 5 @174406 has 1 MA's), (26, 174655),