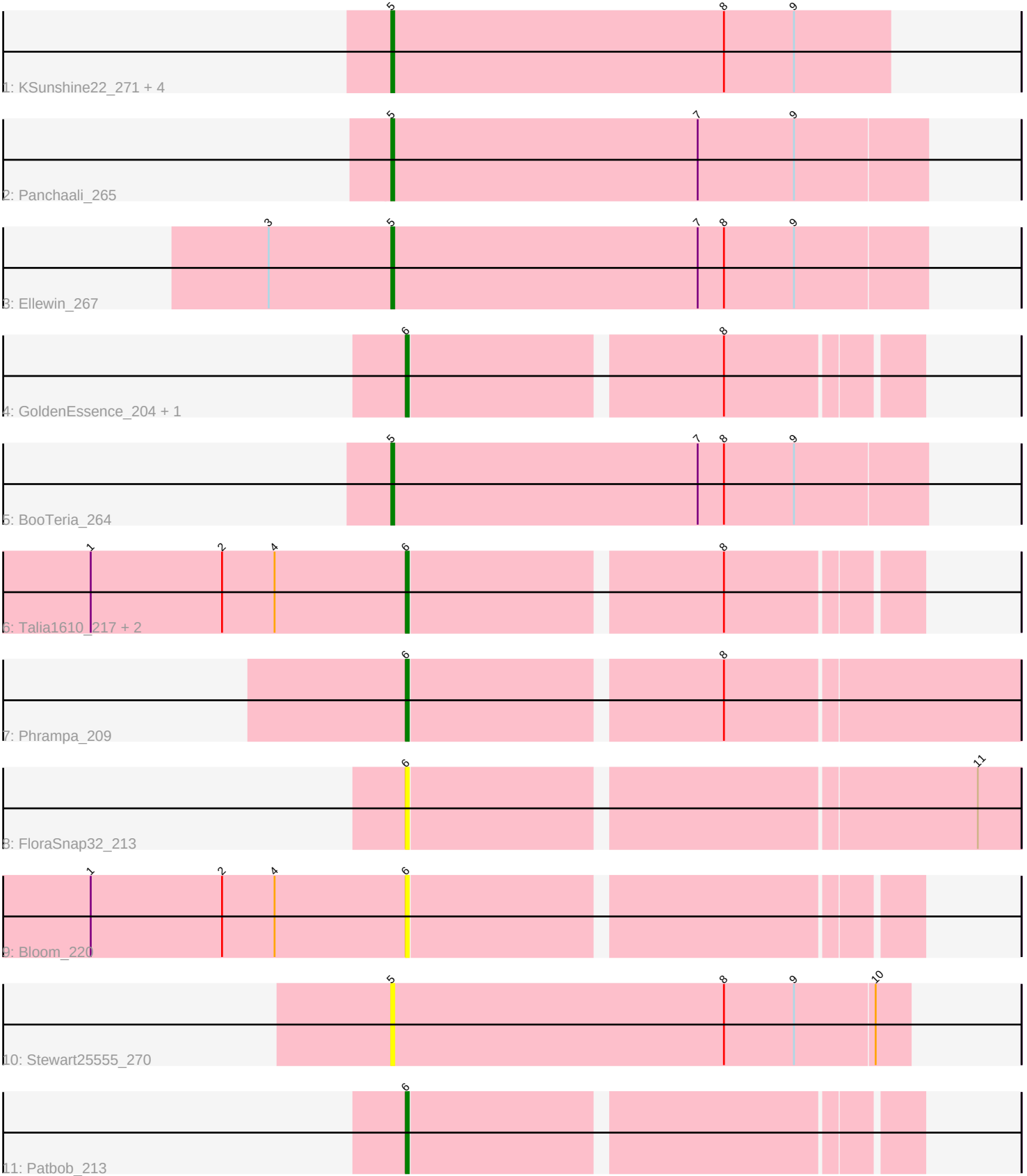


Pham 309410



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 309410 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309410 has 18 members, 7 are drafts.

Phages represented in each track:

- Track 1 : KSunshine22_271, Artu_265, WaddleDee_266, Emmetator_268, DunneganBoMo_268
- Track 2 : Panchaali_265
- Track 3 : Ellewin_267
- Track 4 : GoldenEssence_204, FrostedClock_219
- Track 5 : BooTeria_264
- Track 6 : Talia1610_217, Mimi_215, Racecar_217
- Track 7 : Phrampa_209
- Track 8 : FloraSnap32_213
- Track 9 : Bloom_220
- Track 10 : Stewart25555_270
- Track 11 : Patbob_213

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_220, FloraSnap32_213, FrostedClock_219, GoldenEssence_204, Mimi_215, Patbob_213, Phrampa_209, Racecar_217, Talia1610_217,

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

-

Genes that do not have the "Most Annotated" start:

- Artu_265, BooTeria_264, DunneganBoMo_268, Ellewin_267, Emmetator_268, KSunshine22_271, Panchaali_265, Stewart25555_270, WaddleDee_266,

Summary by start number:

Start 5:

- Found in 9 of 18 (50.0%) of genes in pham
- Manual Annotations of this start: 5 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_265 (FC), BooTeria_264 (FC), DunneganBoMo_268 (FC), Ellewin_267 (FC), Emmetator_268 (FC), KSunshine22_271 (FC), Panchaali_265 (FC), Stewart25555_270 (FC), WaddleDee_266 (FC),

Start 6:

- Found in 9 of 18 (50.0%) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_220 (FC), FloraSnap32_213 (FC), FrostedClock_219 (FC), GoldenEssence_204 (FC), Mimi_215 (FC), Patbob_213 (FC), Phrampa_209 (FC), Racecar_217 (FC), Talia1610_217 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 5 was manually annotated 5 times for cluster FC.
- Start number 6 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Artu_265 Start: 170590, Stop: 170772, Start Num: 5

Candidate Starts for Artu_265:

(Start: 5 @170590 has 5 MA's), (8, 170704), (9, 170728),

Gene: Bloom_220 Start: 147221, Stop: 147385, Start Num: 6

Candidate Starts for Bloom_220:

(1, 147113), (2, 147158), (4, 147176), (Start: 6 @147221 has 6 MA's),

Gene: BooTeria_264 Start: 169885, Stop: 170067, Start Num: 5

Candidate Starts for BooTeria_264:

(Start: 5 @169885 has 5 MA's), (7, 169990), (8, 169999), (9, 170023),

Gene: DunneganBoMo_268 Start: 169638, Stop: 169820, Start Num: 5

Candidate Starts for DunneganBoMo_268:

(Start: 5 @169638 has 5 MA's), (8, 169752), (9, 169776),

Gene: Ellewin_267 Start: 170033, Stop: 170215, Start Num: 5

Candidate Starts for Ellewin_267:

(3, 169991), (Start: 5 @170033 has 5 MA's), (7, 170138), (8, 170147), (9, 170171),

Gene: Emmetator_268 Start: 168797, Stop: 168979, Start Num: 5

Candidate Starts for Emmetator_268:

(Start: 5 @168797 has 5 MA's), (8, 168911), (9, 168935),

Gene: FloraSnap32_213 Start: 145345, Stop: 145545, Start Num: 6

Candidate Starts for FloraSnap32_213:

(Start: 6 @145345 has 6 MA's), (11, 145531),

Gene: FrostedClock_219 Start: 147140, Stop: 147304, Start Num: 6
Candidate Starts for FrostedClock_219:
(Start: 6 @147140 has 6 MA's), (8, 147242),

Gene: GoldenEssence_204 Start: 141198, Stop: 141362, Start Num: 6
Candidate Starts for GoldenEssence_204:
(Start: 6 @141198 has 6 MA's), (8, 141300),

Gene: KSunshine22_271 Start: 168709, Stop: 168879, Start Num: 5
Candidate Starts for KSunshine22_271:
(Start: 5 @168709 has 5 MA's), (8, 168823), (9, 168847),

Gene: Mimi_215 Start: 146596, Stop: 146760, Start Num: 6
Candidate Starts for Mimi_215:
(1, 146488), (2, 146533), (4, 146551), (Start: 6 @146596 has 6 MA's), (8, 146698),

Gene: Panchaali_265 Start: 169975, Stop: 170157, Start Num: 5
Candidate Starts for Panchaali_265:
(Start: 5 @169975 has 5 MA's), (7, 170080), (9, 170113),

Gene: Patbob_213 Start: 146994, Stop: 147158, Start Num: 6
Candidate Starts for Patbob_213:
(Start: 6 @146994 has 6 MA's),

Gene: Phrampa_209 Start: 147748, Stop: 147948, Start Num: 6
Candidate Starts for Phrampa_209:
(Start: 6 @147748 has 6 MA's), (8, 147850),

Gene: Racecar_217 Start: 146975, Stop: 147139, Start Num: 6
Candidate Starts for Racecar_217:
(1, 146867), (2, 146912), (4, 146930), (Start: 6 @146975 has 6 MA's), (8, 147077),

Gene: Stewart25555_270 Start: 170030, Stop: 170206, Start Num: 5
Candidate Starts for Stewart25555_270:
(Start: 5 @170030 has 5 MA's), (8, 170144), (9, 170168), (10, 170195),

Gene: Talia1610_217 Start: 147005, Stop: 147169, Start Num: 6
Candidate Starts for Talia1610_217:
(1, 146897), (2, 146942), (4, 146960), (Start: 6 @147005 has 6 MA's), (8, 147107),

Gene: WaddleDee_266 Start: 169171, Stop: 169353, Start Num: 5
Candidate Starts for WaddleDee_266:
(Start: 5 @169171 has 5 MA's), (8, 169285), (9, 169309),