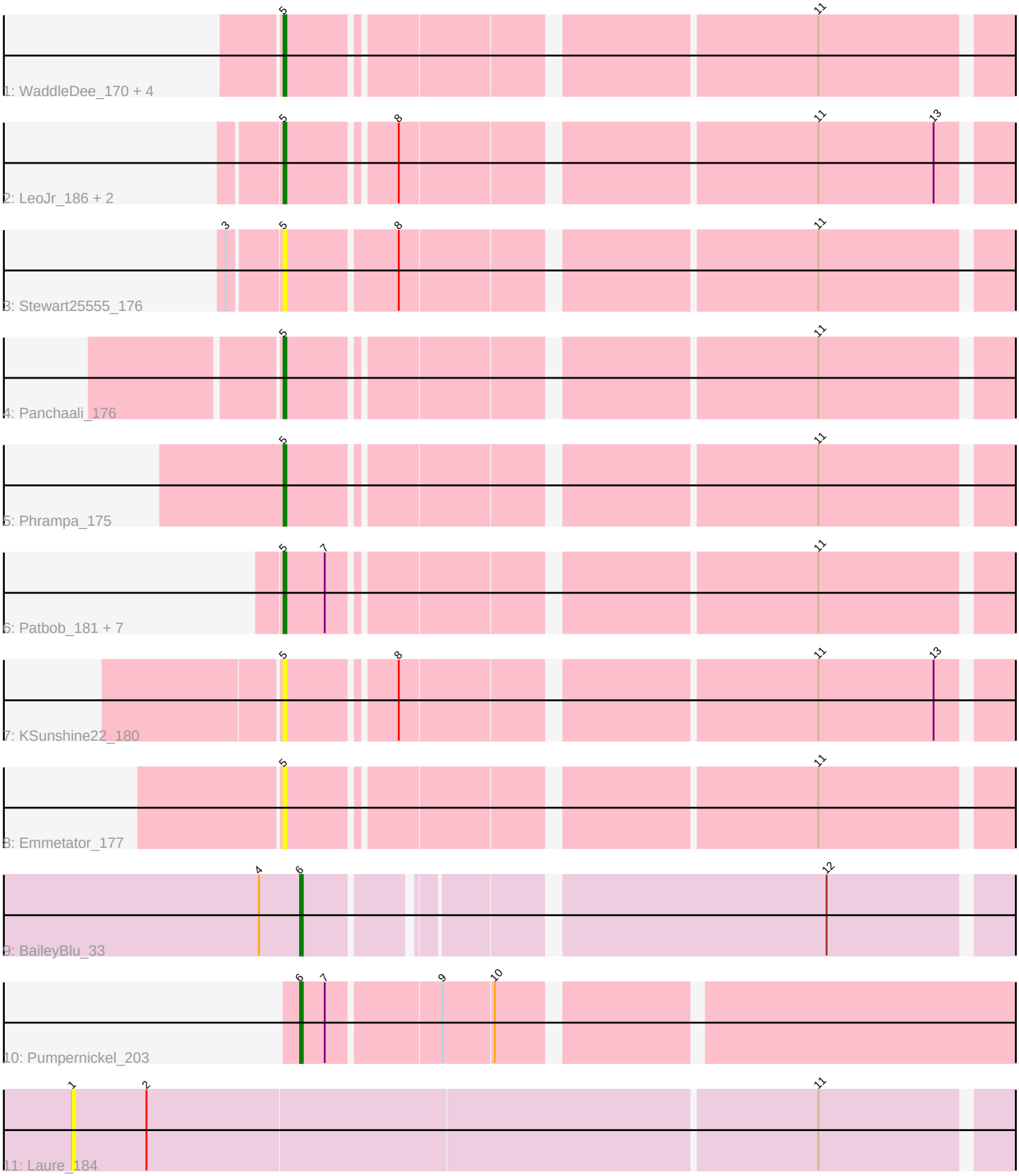
# Pham 295046


5
11
1: WaddleDee_170 + 4
5
8
11
13
2: LeoJr_186 + 2
3
5
8
11
3: Stewart25555_176
5
11
4: Panchaali_176
5
11
5: Phrampa_175
5
7
11
6: Patbob_181 + 7
5
8
11
13
7: KSunshine22_180
5
11
8: Emmetator_177
4
6
12
9: BaileyBlu_33
6
7
9
10
10: Pumpernickel_203
1
2
11
11: Laure_184

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 295046 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295046 has 24 members, 11 are drafts.

Phages represented in each track:
• Track 1 : WaddleDee_170, BooTeria_182, DunneganBoMo_174, Artu_177, Ellewin_174
• Track 2 : LeoJr_186, ReginaGlobina_190, Atuin_177
• Track 3 : Stewart25555_176
• Track 4 : Panchaali_176
• Track 5 : Phrampa_175
• Track 6 : Patbob_181, GoldenEssence_170, Bloom_187, FloraSnap32_180, Racecar_184, Talia1610_184, Mimi_183, FrostedClock_186
• Track 7 : KSunshine22_180
• Track 8 : Emmetator_177
• Track 9 : BaileyBlu_33
• Track 10 : Pumpernickel_203
• Track 11 : Laure_184

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_177, Atuin_177, Bloom_187, BooTeria_182, DunneganBoMo_174, Ellewin_174, Emmetator_177, FloraSnap32_180, FrostedClock_186, GoldenEssence_170, KSunshine22_180, LeoJr_186, Mimi_183, Panchaali_176, Patbob_181, Phrampa_175, Racecar_184, ReginaGlobina_190, Stewart25555_176, Talia1610_184, WaddleDee_170,

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

Genes that do not have the "Most Annotated" start:
• BaileyBlu_33, Laure_184, Pumpernickel_203,

**Summary by start number:**

Start 1:
• Found in 1 of 24 ( 4.2% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_184 (UNK),

Start 5:
• Found in 21 of 24 ( 87.5% ) of genes in pham
• Manual Annotations of this start: 11 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_177 (FC), Atuin_177 (FC), Bloom_187 (FC), BooTeria_182 (FC), DunneganBoMo_174 (FC), Ellewin_174 (FC), Emmetator_177 (FC), FloraSnap32_180 (FC), FrostedClock_186 (FC), GoldenEssence_170 (FC), KSunshine22_180 (FC), LeoJr_186 (FC), Mimi_183 (FC), Panchaali_176 (FC), Patbob_181 (FC), Phrampa_175 (FC), Racecar_184 (FC), ReginaGlobina_190 (FC), Stewart25555_176 (FC), Talia1610_184 (FC), WaddleDee_170 (FC),

Start 6:
• Found in 2 of 24 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_33 (FP), Pumpernickel_203 (GD4),

**Summary by clusters:**

There are 4 clusters represented in this pham: FP, UNK, FC, GD4,

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 11 times for cluster FC.

Info for manual annotations of cluster FP:
•Start number 6 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster GD4:
•Start number 6 was manually annotated 1 time for cluster GD4.

***Gene Information:***

Gene: Artu_177 Start: 120610, Stop: 120864, Start Num: 5
Candidate Starts for Artu_177:
(Start: 5 @120610 has 11 MA's), (11, 120787),

Gene: Atuin_177 Start: 122575, Stop: 122829, Start Num: 5
Candidate Starts for Atuin_177:
(Start: 5 @122575 has 11 MA's), (8, 122611), (11, 122752), (13, 122794),

Gene: BaileyBlu_33 Start: 24089, Stop: 24334, Start Num: 6
Candidate Starts for BaileyBlu_33:

(4, 24074), (Start: 6 @24089 has 2 MA's), (12, 24263),

Gene: Bloom_187 Start: 122149, Stop: 122403, Start Num: 5
Candidate Starts for Bloom_187:
(Start: 5 @122149 has 11 MA's), (7, 122164), (11, 122326),

Gene: BooTeria_182 Start: 120032, Stop: 120286, Start Num: 5
Candidate Starts for BooTeria_182:
(Start: 5 @120032 has 11 MA's), (11, 120209),

Gene: DunneganBoMo_174 Start: 119214, Stop: 119468, Start Num: 5
Candidate Starts for DunneganBoMo_174:
(Start: 5 @119214 has 11 MA's), (11, 119391),

Gene: Ellewin_174 Start: 119388, Stop: 119642, Start Num: 5
Candidate Starts for Ellewin_174:
(Start: 5 @119388 has 11 MA's), (11, 119565),

Gene: Emmetator_177 Start: 119534, Stop: 119788, Start Num: 5
Candidate Starts for Emmetator_177:
(Start: 5 @119534 has 11 MA's), (11, 119711),

Gene: FloraSnap32_180 Start: 120480, Stop: 120734, Start Num: 5
Candidate Starts for FloraSnap32_180:
(Start: 5 @120480 has 11 MA's), (7, 120495), (11, 120657),

Gene: FrostedClock_186 Start: 122724, Stop: 122978, Start Num: 5
Candidate Starts for FrostedClock_186:
(Start: 5 @122724 has 11 MA's), (7, 122739), (11, 122901),

Gene: GoldenEssence_170 Start: 115722, Stop: 115976, Start Num: 5
Candidate Starts for GoldenEssence_170:
(Start: 5 @115722 has 11 MA's), (7, 115737), (11, 115899),

Gene: KSunshine22_180 Start: 121028, Stop: 121282, Start Num: 5
Candidate Starts for KSunshine22_180:
(Start: 5 @121028 has 11 MA's), (8, 121064), (11, 121205), (13, 121247),

Gene: Laure_184 Start: 113724, Stop: 114068, Start Num: 1
Candidate Starts for Laure_184:
(1, 113724), (2, 113751), (11, 113991),

Gene: LeoJr_186 Start: 123129, Stop: 123383, Start Num: 5
Candidate Starts for LeoJr_186:
(Start: 5 @123129 has 11 MA's), (8, 123165), (11, 123306), (13, 123348),

Gene: Mimi_183 Start: 121776, Stop: 122030, Start Num: 5
Candidate Starts for Mimi_183:
(Start: 5 @121776 has 11 MA's), (7, 121791), (11, 121953),

Gene: Panchaali_176 Start: 120271, Stop: 120525, Start Num: 5
Candidate Starts for Panchaali_176:
(Start: 5 @120271 has 11 MA's), (11, 120448),

Gene: Patbob_181 Start: 122338, Stop: 122592, Start Num: 5
Candidate Starts for Patbob_181:
(Start: 5 @122338 has 11 MA's), (7, 122353), (11, 122515),

Gene: Phrampa_175 Start: 123930, Stop: 124184, Start Num: 5
Candidate Starts for Phrampa_175:
(Start: 5 @123930 has 11 MA's), (11, 124107),

Gene: Pumpernickel_203 Start: 117028, Stop: 116777, Start Num: 6
Candidate Starts for Pumpernickel_203:
(Start: 6 @117028 has 2 MA's), (7, 117019), (9, 116980), (10, 116962),

Gene: Racecar_184 Start: 122742, Stop: 122996, Start Num: 5
Candidate Starts for Racecar_184:
(Start: 5 @122742 has 11 MA's), (7, 122757), (11, 122919),

Gene: ReginaGlobina_190 Start: 124398, Stop: 124652, Start Num: 5
Candidate Starts for ReginaGlobina_190:
(Start: 5 @124398 has 11 MA's), (8, 124434), (11, 124575), (13, 124617),

Gene: Stewart25555_176 Start: 121983, Stop: 122240, Start Num: 5
Candidate Starts for Stewart25555_176:
(3, 121965), (Start: 5 @121983 has 11 MA's), (8, 122022), (11, 122163),

Gene: Talia1610_184 Start: 122159, Stop: 122413, Start Num: 5
Candidate Starts for Talia1610_184:
(Start: 5 @122159 has 11 MA's), (7, 122174), (11, 122336),

Gene: WaddleDee_170 Start: 118487, Stop: 118741, Start Num: 5
Candidate Starts for WaddleDee_170:
(Start: 5 @118487 has 11 MA's), (11, 118664),