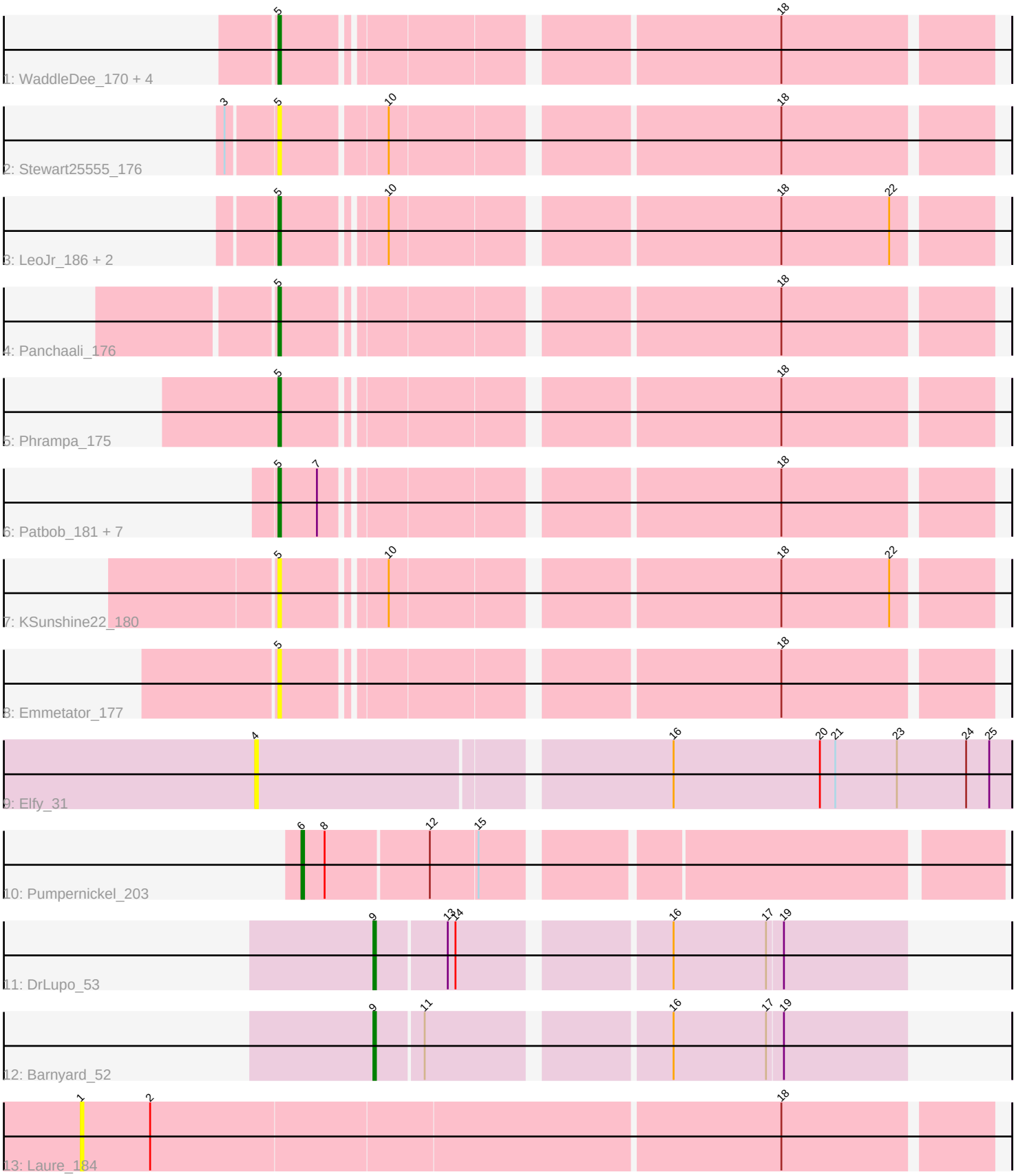
# Pham 291455


1: WaddleDee_170 + 4
2: Stewart25555_176
3: LeoJr_186 + 2
4: Panchaali_176
5: Phrampa_175
6: Patbob_181 + 7
7: KSunshine22_180
8: Emmetator_177
9: Elfy_31
10: Pumpernickel_203
11: DrLupo_53
12: Barnyard_52
13: 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 291455 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291455 has 26 members, 13 are drafts.

Phages represented in each track:
• Track 1 : WaddleDee_170, BooTeria_182, DunneganBoMo_174, Ellewin_180, Artu_177
• Track 2 : Stewart25555_176
• Track 3 : LeoJr_186, ReginaGlobina_190, Atuin_177
• 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 : Elfy_31
• Track 10 : Pumpernickel_203
• Track 11 : DrLupo_53
• Track 12 : Barnyard_52
• Track 13 : 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 10 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_180, 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:
• Barnyard_52, DrLupo_53, Elfy_31, Laure_184, Pumpernickel_203,

**Summary by start number:**

Start 1:
• Found in 1 of 26 ( 3.8% ) 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 4:
• Found in 1 of 26 ( 3.8% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elfy_31 (FP),

Start 5:
• Found in 21 of 26 ( 80.8% ) of genes in pham
• Manual Annotations of this start: 10 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_180 (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 1 of 26 ( 3.8% ) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_203 (GD4),

Start 9:
• Found in 2 of 26 ( 7.7% ) 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: Barnyard_52 (H2), DrLupo_53 (H2),

**Summary by clusters:**

There are 5 clusters represented in this pham: H2, FP, UNK, FC, GD4,

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 10 times for cluster FC.

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

Info for manual annotations of cluster H2:
•Start number 9 was manually annotated 2 times for cluster H2.

### *Gene Information:*

Gene: Artu_177 Start: 120610, Stop: 120864, Start Num: 5
Candidate Starts for Artu_177:
(Start: 5 @120610 has 10 MA's), (18, 120787),

Gene: Atuin_177 Start: 122575, Stop: 122829, Start Num: 5
Candidate Starts for Atuin_177:
(Start: 5 @122575 has 10 MA's), (10, 122611), (18, 122752), (22, 122794),

Gene: Barnyard_52 Start: 39091, Stop: 39285, Start Num: 9
Candidate Starts for Barnyard_52:
(Start: 9 @39091 has 2 MA's), (11, 39109), (16, 39196), (17, 39232), (19, 39238),

Gene: Bloom_187 Start: 122149, Stop: 122403, Start Num: 5
Candidate Starts for Bloom_187:
(Start: 5 @122149 has 10 MA's), (7, 122164), (18, 122326),

Gene: BooTeria_182 Start: 120032, Stop: 120286, Start Num: 5
Candidate Starts for BooTeria_182:
(Start: 5 @120032 has 10 MA's), (18, 120209),

Gene: DrLupo_53 Start: 39502, Stop: 39696, Start Num: 9
Candidate Starts for DrLupo_53:
(Start: 9 @39502 has 2 MA's), (13, 39529), (14, 39532), (16, 39607), (17, 39643), (19, 39649),

Gene: DunneganBoMo_174 Start: 119214, Stop: 119468, Start Num: 5
Candidate Starts for DunneganBoMo_174:
(Start: 5 @119214 has 10 MA's), (18, 119391),

Gene: Elfy_31 Start: 23896, Stop: 24180, Start Num: 4
Candidate Starts for Elfy_31:
(4, 23896), (16, 24049), (20, 24106), (21, 24112), (23, 24136), (24, 24163), (25, 24172),

Gene: Ellewin_180 Start: 119388, Stop: 119642, Start Num: 5
Candidate Starts for Ellewin_180:
(Start: 5 @119388 has 10 MA's), (18, 119565),

Gene: Emmetator_177 Start: 119534, Stop: 119788, Start Num: 5
Candidate Starts for Emmetator_177:
(Start: 5 @119534 has 10 MA's), (18, 119711),

Gene: FloraSnap32_180 Start: 120480, Stop: 120734, Start Num: 5
Candidate Starts for FloraSnap32_180:
(Start: 5 @120480 has 10 MA's), (7, 120495), (18, 120657),

Gene: FrostedClock_186 Start: 122724, Stop: 122978, Start Num: 5
Candidate Starts for FrostedClock_186:
(Start: 5 @122724 has 10 MA's), (7, 122739), (18, 122901),

Gene: GoldenEssence_170 Start: 115722, Stop: 115976, Start Num: 5

Candidate Starts for GoldenEssence_170:
(Start: 5 @115722 has 10 MA's), (7, 115737), (18, 115899),

Gene: KSunshine22_180 Start: 121028, Stop: 121282, Start Num: 5
Candidate Starts for KSunshine22_180:
(Start: 5 @121028 has 10 MA's), (10, 121064), (18, 121205), (22, 121247),

Gene: Laure_184 Start: 113724, Stop: 114068, Start Num: 1
Candidate Starts for Laure_184:
(1, 113724), (2, 113751), (18, 113991),

Gene: LeoJr_186 Start: 123129, Stop: 123383, Start Num: 5
Candidate Starts for LeoJr_186:
(Start: 5 @123129 has 10 MA's), (10, 123165), (18, 123306), (22, 123348),

Gene: Mimi_183 Start: 121776, Stop: 122030, Start Num: 5
Candidate Starts for Mimi_183:
(Start: 5 @121776 has 10 MA's), (7, 121791), (18, 121953),

Gene: Panchaali_176 Start: 120271, Stop: 120525, Start Num: 5
Candidate Starts for Panchaali_176:
(Start: 5 @120271 has 10 MA's), (18, 120448),

Gene: Patbob_181 Start: 122338, Stop: 122592, Start Num: 5
Candidate Starts for Patbob_181:
(Start: 5 @122338 has 10 MA's), (7, 122353), (18, 122515),

Gene: Phrampa_175 Start: 123930, Stop: 124184, Start Num: 5
Candidate Starts for Phrampa_175:
(Start: 5 @123930 has 10 MA's), (18, 124107),

Gene: Pumpernickel_203 Start: 117028, Stop: 116777, Start Num: 6
Candidate Starts for Pumpernickel_203:
(Start: 6 @117028 has 1 MA's), (8, 117019), (12, 116980), (15, 116962),

Gene: Racecar_184 Start: 122742, Stop: 122996, Start Num: 5
Candidate Starts for Racecar_184:
(Start: 5 @122742 has 10 MA's), (7, 122757), (18, 122919),

Gene: ReginaGlobina_190 Start: 124398, Stop: 124652, Start Num: 5
Candidate Starts for ReginaGlobina_190:
(Start: 5 @124398 has 10 MA's), (10, 124434), (18, 124575), (22, 124617),

Gene: Stewart25555_176 Start: 121983, Stop: 122240, Start Num: 5
Candidate Starts for Stewart25555_176:
(3, 121965), (Start: 5 @121983 has 10 MA's), (10, 122022), (18, 122163),

Gene: Talia1610_184 Start: 122159, Stop: 122413, Start Num: 5
Candidate Starts for Talia1610_184:
(Start: 5 @122159 has 10 MA's), (7, 122174), (18, 122336),

Gene: WaddleDee_170 Start: 118487, Stop: 118741, Start Num: 5
Candidate Starts for WaddleDee_170:

(Start: 5 @118487 has 10 MA's), (18, 118664),