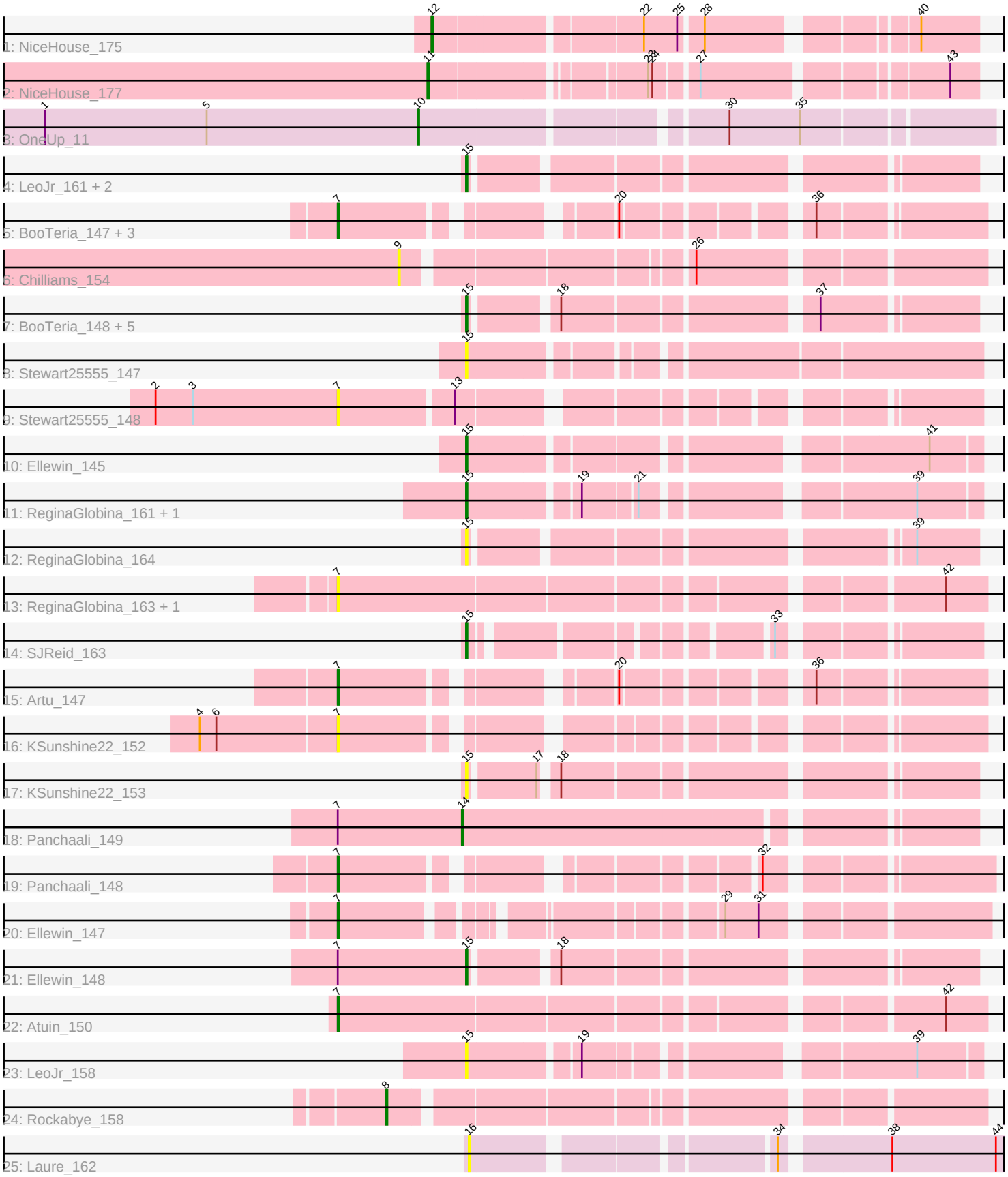
Pham 347826


1: NiceHouse_175
2: NiceHouse_177
3: OneUp_11
4: LeoJr_161 + 2
5: BooTeria_147 + 3
6: Chilliams_154
7: BooTeria_148 + 5
8: Stewart25555_147
9: Stewart25555_148
10: Ellewin_145
11: ReginaGlobina_161 + 1
12: ReginaGlobina_164
13: ReginaGlobina_163 + 1
14: SJReid_163
15: Artu_147
16: KSunshine22_152
17: KSunshine22_153
18: Panchaali_149
19: Panchaali_148
20: Ellewin_147
21: Ellewin_148
22: Atuin_150
23: LeoJr_158
24: Rockabye_158
25: Laure_162

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 347826 Report

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

Pham number 347826 has 37 members, 15 are drafts.

Phages represented in each track:
• Track 1 : NiceHouse_175
• Track 2 : NiceHouse_177
• Track 3 : OneUp_11
• Track 4 : LeoJr_161, Chilliams_155, Rockabye_159
• Track 5 : BooTeria_147, Emmetator_150, WaddleDee_143, DunneganBoMo_147
• Track 6 : Chilliams_154
• Track 7 : BooTeria_148, Artu_148, Emmetator_151, WaddleDee_144, Atuin_151, DunneganBoMo_148
• Track 8 : Stewart25555_147
• Track 9 : Stewart25555_148
• Track 10 : Ellewin_145
• Track 11 : ReginaGlobina_161, Atuin_148
• Track 12 : ReginaGlobina_164
• Track 13 : ReginaGlobina_163, LeoJr_160
• Track 14 : SJReid_163
• Track 15 : Artu_147
• Track 16 : KSunshine22_152
• Track 17 : KSunshine22_153
• Track 18 : Panchaali_149
• Track 19 : Panchaali_148
• Track 20 : Ellewin_147
• Track 21 : Ellewin_148
• Track 22 : Atuin_150
• Track 23 : LeoJr_158
• Track 24 : Rockabye_158
• Track 25 : Laure_162

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

The start number called the most often in the published annotations is 15, it was called in 10 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Artu_148, Atuin_148, Atuin_151, BooTeria_148, Chilliams_155, DunneganBoMo_148, Ellewin_145, Ellewin_148, Emmetator_151, KSunshine22_153, LeoJr_158, LeoJr_161, ReginaGlobina_161, ReginaGlobina_164, Rockabye_159, SJReid_163, Stewart25555_147, WaddleDee_144,

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

Genes that do not have the "Most Annotated" start:
• Artu_147, Atuin_150, BooTeria_147, Chilliams_154, DunneganBoMo_147, Ellewin_147, Emmetator_150, KSunshine22_152, Laure_162, LeoJr_160, NiceHouse_175, NiceHouse_177, OneUp_11, Panchaali_148, Panchaali_149, ReginaGlobina_163, Rockabye_158, Stewart25555_148, WaddleDee_143,

Summary by start number:

Start 7:
• Found in 14 of 37 (37.8%) of genes in pham
• Manual Annotations of this start: 7 of 22
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Artu_147 (FC), Atuin_150 (FC), BooTeria_147 (FC), DunneganBoMo_147 (FC), Ellewin_147 (FC), Emmetator_150 (FC), KSunshine22_152 (FC), LeoJr_160 (FC), Panchaali_148 (FC), ReginaGlobina_163 (FC), Stewart25555_148 (FC), WaddleDee_143 (FC),

Start 8:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rockabye_158 (FC),

Start 9:
• Found in 1 of 37 (2.7%) 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_154 (FC),

Start 10:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_11 (CQ2),

Start 11:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_177 (CE),

Start 12:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present

• Phage (with cluster) where this start called: NiceHouse_175 (CE),

Start 14:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_149 (FC),

Start 15:
• Found in 18 of 37 (48.6%) of genes in pham
• Manual Annotations of this start: 10 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_148 (FC), Atuin_148 (FC), Atuin_151 (FC), BooTeria_148 (FC), Chilliams_155 (FC), DunneganBoMo_148 (FC), Ellewin_145 (FC), Ellewin_148 (FC), Emmetator_151 (FC), KSunshine22_153 (FC), LeoJr_158 (FC), LeoJr_161 (FC), ReginaGlobina_161 (FC), ReginaGlobina_164 (FC), Rockabye_159 (FC), SJReid_163 (FC), Stewart25555_147 (FC), WaddleDee_144 (FC),

Start 16:
• Found in 1 of 37 (2.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_162 (UNK),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, UNK, FC, CE,

Info for manual annotations of cluster CE:
•Start number 11 was manually annotated 1 time for cluster CE.
•Start number 12 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CQ2:
•Start number 10 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster FC:
•Start number 7 was manually annotated 7 times for cluster FC.
•Start number 8 was manually annotated 1 time for cluster FC.
•Start number 14 was manually annotated 1 time for cluster FC.
•Start number 15 was manually annotated 10 times for cluster FC.

Gene Information:

Gene: Artu_148 Start: 102765, Stop: 103088, Start Num: 15
Candidate Starts for Artu_148:
(Start: 15 @102765 has 10 MA's), (18, 102819), (37, 102984),

Gene: Artu_147 Start: 102382, Stop: 102765, Start Num: 7
Candidate Starts for Artu_147:

(Start: 7 @102382 has 7 MA's), (20, 102544), (36, 102655),

Gene: Atuin_148 Start: 104321, Stop: 104644, Start Num: 15
Candidate Starts for Atuin_148:
(Start: 15 @104321 has 10 MA's), (19, 104393), (21, 104429), (39, 104600),

Gene: Atuin_151 Start: 105420, Stop: 105743, Start Num: 15
Candidate Starts for Atuin_151:
(Start: 15 @105420 has 10 MA's), (18, 105474), (37, 105639),

Gene: Atuin_150 Start: 104992, Stop: 105420, Start Num: 7
Candidate Starts for Atuin_150:
(Start: 7 @104992 has 7 MA's), (42, 105391),

Gene: BooTeria_147 Start: 102675, Stop: 103058, Start Num: 7
Candidate Starts for BooTeria_147:
(Start: 7 @102675 has 7 MA's), (20, 102837), (36, 102948),

Gene: BooTeria_148 Start: 103058, Stop: 103381, Start Num: 15
Candidate Starts for BooTeria_148:
(Start: 15 @103058 has 10 MA's), (18, 103112), (37, 103277),

Gene: Chilliams_155 Start: 96358, Stop: 96678, Start Num: 15
Candidate Starts for Chilliams_155:
(Start: 15 @96358 has 10 MA's),

Gene: Chilliams_154 Start: 95980, Stop: 96354, Start Num: 9
Candidate Starts for Chilliams_154:
(9, 95980), (26, 96166),

Gene: DunneganBoMo_148 Start: 102327, Stop: 102650, Start Num: 15
Candidate Starts for DunneganBoMo_148:
(Start: 15 @102327 has 10 MA's), (18, 102381), (37, 102546),

Gene: DunneganBoMo_147 Start: 101944, Stop: 102327, Start Num: 7
Candidate Starts for DunneganBoMo_147:
(Start: 7 @101944 has 7 MA's), (20, 102106), (36, 102217),

Gene: Ellewin_145 Start: 101365, Stop: 101691, Start Num: 15
Candidate Starts for Ellewin_145:
(Start: 15 @101365 has 10 MA's), (41, 101656),

Gene: Ellewin_147 Start: 102039, Stop: 102437, Start Num: 7
Candidate Starts for Ellewin_147:
(Start: 7 @102039 has 7 MA's), (29, 102267), (31, 102291),

Gene: Ellewin_148 Start: 102437, Stop: 102760, Start Num: 15
Candidate Starts for Ellewin_148:
(Start: 7 @102344 has 7 MA's), (Start: 15 @102437 has 10 MA's), (18, 102491),

Gene: Emmetator_150 Start: 102257, Stop: 102640, Start Num: 7
Candidate Starts for Emmetator_150:
(Start: 7 @102257 has 7 MA's), (20, 102419), (36, 102530),

Gene: Emmetator_151 Start: 102640, Stop: 102963, Start Num: 15
Candidate Starts for Emmetator_151:
(Start: 15 @102640 has 10 MA's), (18, 102694), (37, 102859),

Gene: KSunshine22_152 Start: 103001, Stop: 103387, Start Num: 7
Candidate Starts for KSunshine22_152:
(4, 102905), (6, 102917), (Start: 7 @103001 has 7 MA's),

Gene: KSunshine22_153 Start: 103387, Stop: 103710, Start Num: 15
Candidate Starts for KSunshine22_153:
(Start: 15 @103387 has 10 MA's), (17, 103432), (18, 103441),

Gene: Laure_162 Start: 98082, Stop: 98423, Start Num: 16
Candidate Starts for Laure_162:
(16, 98082), (34, 98274), (38, 98343), (44, 98418),

Gene: LeoJr_161 Start: 106018, Stop: 106341, Start Num: 15
Candidate Starts for LeoJr_161:
(Start: 15 @106018 has 10 MA's),

Gene: LeoJr_158 Start: 104920, Stop: 105243, Start Num: 15
Candidate Starts for LeoJr_158:
(Start: 15 @104920 has 10 MA's), (19, 104992), (39, 105199),

Gene: LeoJr_160 Start: 105590, Stop: 106018, Start Num: 7
Candidate Starts for LeoJr_160:
(Start: 7 @105590 has 7 MA's), (42, 105989),

Gene: NiceHouse_175 Start: 99827, Stop: 100174, Start Num: 12
Candidate Starts for NiceHouse_175:
(Start: 12 @99827 has 1 MA's), (22, 99965), (25, 99989), (28, 100004), (40, 100133),

Gene: NiceHouse_177 Start: 100519, Stop: 100866, Start Num: 11
Candidate Starts for NiceHouse_177:
(Start: 11 @100519 has 1 MA's), (23, 100657), (24, 100660), (27, 100687), (43, 100846),

Gene: OneUp_11 Start: 3220, Stop: 3600, Start Num: 10
Candidate Starts for OneUp_11:
(1, 2950), (5, 3067), (Start: 10 @3220 has 1 MA's), (30, 3421), (35, 3472),

Gene: Panchaali_149 Start: 102508, Stop: 102852, Start Num: 14
Candidate Starts for Panchaali_149:
(Start: 7 @102418 has 7 MA's), (Start: 14 @102508 has 1 MA's),

Gene: Panchaali_148 Start: 102119, Stop: 102511, Start Num: 7
Candidate Starts for Panchaali_148:
(Start: 7 @102119 has 7 MA's), (32, 102368),

Gene: ReginaGlobina_161 Start: 106194, Stop: 106517, Start Num: 15
Candidate Starts for ReginaGlobina_161:
(Start: 15 @106194 has 10 MA's), (19, 106266), (21, 106302), (39, 106473),

Gene: ReginaGlobina_164 Start: 107292, Stop: 107615, Start Num: 15
Candidate Starts for ReginaGlobina_164:
(Start: 15 @107292 has 10 MA's), (39, 107571),

Gene: ReginaGlobina_163 Start: 106864, Stop: 107292, Start Num: 7
Candidate Starts for ReginaGlobina_163:
(Start: 7 @106864 has 7 MA's), (42, 107263),

Gene: Rockabye_158 Start: 97547, Stop: 97930, Start Num: 8
Candidate Starts for Rockabye_158:
(Start: 8 @97547 has 1 MA's),

Gene: Rockabye_159 Start: 97934, Stop: 98251, Start Num: 15
Candidate Starts for Rockabye_159:
(Start: 15 @97934 has 10 MA's),

Gene: SJReid_163 Start: 96973, Stop: 97275, Start Num: 15
Candidate Starts for SJReid_163:
(Start: 15 @96973 has 10 MA's), (33, 97150),

Gene: Stewart25555_147 Start: 102928, Stop: 103263, Start Num: 15
Candidate Starts for Stewart25555_147:
(Start: 15 @102928 has 10 MA's),

Gene: Stewart25555_148 Start: 103275, Stop: 103673, Start Num: 7
Candidate Starts for Stewart25555_148:
(2, 103143), (3, 103170), (Start: 7 @103275 has 7 MA's), (13, 103353),

Gene: WaddleDee_144 Start: 101513, Stop: 101836, Start Num: 15
Candidate Starts for WaddleDee_144:
(Start: 15 @101513 has 10 MA's), (18, 101567), (37, 101732),

Gene: WaddleDee_143 Start: 101130, Stop: 101513, Start Num: 7
Candidate Starts for WaddleDee_143:
(Start: 7 @101130 has 7 MA's), (20, 101292), (36, 101403),