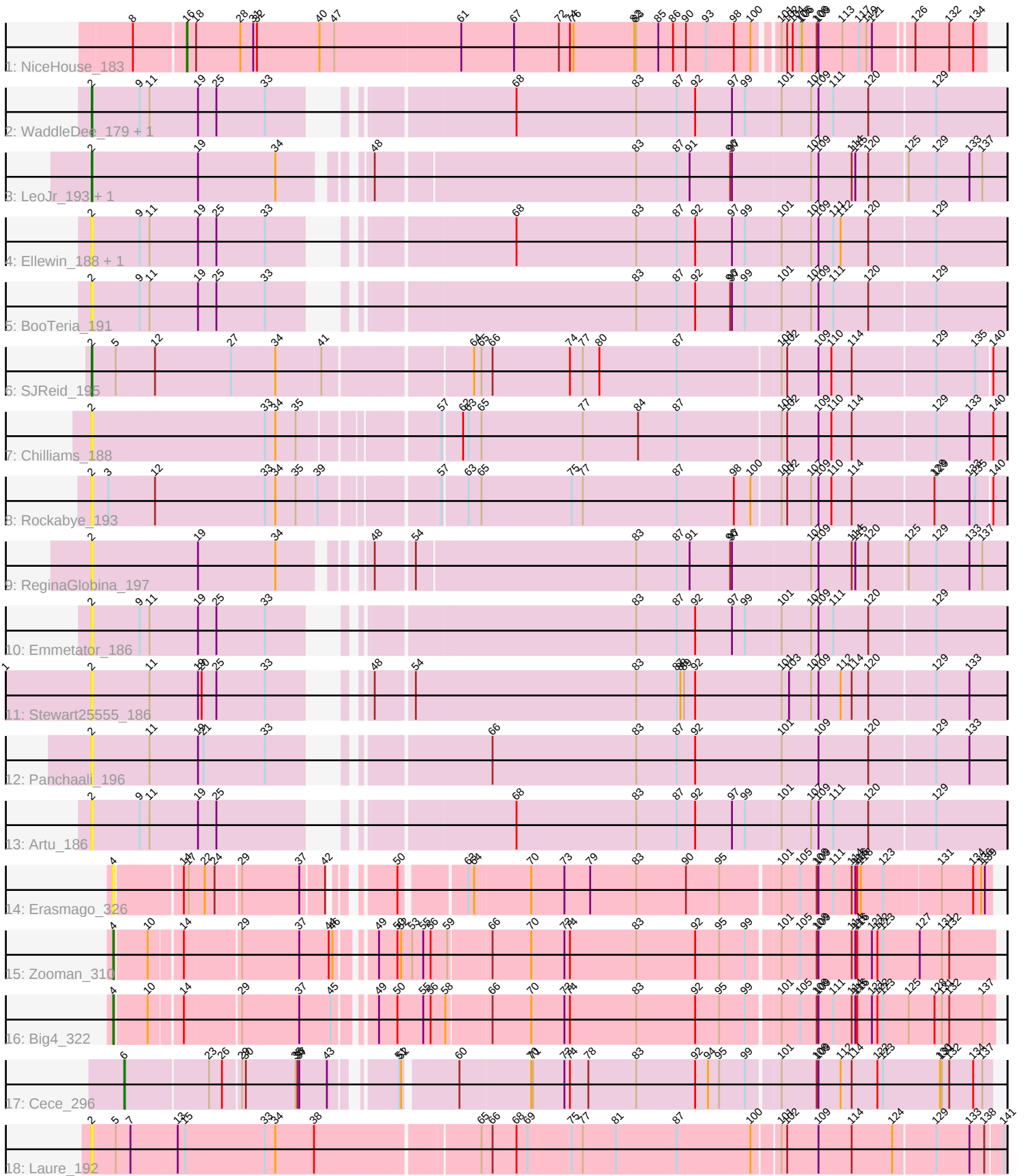


# Pham 276577



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 276577 Report

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

Pham number 276577 has 21 members, 13 are drafts.

Phages represented in each track:

- Track 1 : NiceHouse\_183
- Track 2 : WaddleDee\_179, DunneganBoMo\_182
- Track 3 : LeoJr\_193, Atuin\_184
- Track 4 : Ellewin\_188, KSunshine22\_187
- Track 5 : BooTeria\_191
- Track 6 : SJReid\_195
- Track 7 : Chilliams\_188
- Track 8 : Rockabye\_193
- Track 9 : ReginaGlobina\_197
- Track 10 : Emmetator\_186
- Track 11 : Stewart25555\_186
- Track 12 : Panchaali\_196
- Track 13 : Artu\_186
- Track 14 : Erasmago\_326
- Track 15 : Zooman\_310
- Track 16 : Big4\_322
- Track 17 : Cece\_296
- Track 18 : Laure\_192

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

The start number called the most often in the published annotations is 2, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artu\_186, Atuin\_184, BooTeria\_191, Chilliams\_188, DunneganBoMo\_182, Ellewin\_188, Emmetator\_186, KSunshine22\_187, Laure\_192, LeoJr\_193, Panchaali\_196, ReginaGlobina\_197, Rockabye\_193, SJReid\_195, Stewart25555\_186, WaddleDee\_179,

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

- 

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

- Big4\_322, Cece\_296, Erasmago\_326, NiceHouse\_183, Zooman\_310,

### **Summary by start number:**

#### **Start 2:**

- Found in 16 of 21 ( 76.2% ) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu\_186 (FC), Atuin\_184 (FC), BooTeria\_191 (FC), Chilliams\_188 (FC), DunneganBoMo\_182 (FC), Ellewin\_188 (FC), Emmetator\_186 (FC), KSunshine22\_187 (FC), Laure\_192 (UNK), LeoJr\_193 (FC), Panchaali\_196 (FC), ReginaGlobina\_197 (FC), Rockabye\_193 (FC), SJReid\_195 (FC), Stewart25555\_186 (FC), WaddleDee\_179 (FC),

#### **Start 4:**

- Found in 3 of 21 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4\_322 (GD2), Erasmago\_326 (GD2), Zooman\_310 (GD2),

#### **Start 6:**

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece\_296 (GD3),

#### **Start 16:**

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse\_183 (CE),

### **Summary by clusters:**

There are 5 clusters represented in this pham: FC, UNK, GD2, GD3, CE,

Info for manual annotations of cluster CE:

- Start number 16 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster FC:

- Start number 2 was manually annotated 4 times for cluster FC.

Info for manual annotations of cluster GD2:

- Start number 4 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 6 was manually annotated 1 time for cluster GD3.

### **Gene Information:**

Gene: Artu\_186 Start: 136484, Stop: 137851, Start Num: 2

Candidate Starts for Artu\_186:

(Start: 2 @136484 has 4 MA's), (9, 136562), (11, 136577), (19, 136655), (25, 136685), (68, 137063), (83, 137258), (87, 137324), (92, 137354), (97, 137414), (99, 137435), (101, 137492), (107, 137540), (109, 137552), (111, 137576), (120, 137633), (129, 137738),

Gene: Atuin\_184 Start: 129878, Stop: 131275, Start Num: 2

Candidate Starts for Atuin\_184:

(Start: 2 @129878 has 4 MA's), (19, 130046), (34, 130169), (48, 130277), (83, 130682), (87, 130748), (91, 130769), (96, 130835), (97, 130838), (107, 130964), (109, 130976), (114, 131030), (115, 131036), (120, 131057), (125, 131117), (129, 131162), (133, 131216), (137, 131237),

Gene: Big4\_322 Start: 172077, Stop: 173423, Start Num: 4

Candidate Starts for Big4\_322:

(Start: 4 @172077 has 2 MA's), (10, 172122), (14, 172167), (29, 172248), (37, 172338), (45, 172389), (49, 172440), (50, 172470), (55, 172512), (56, 172524), (58, 172548), (66, 172617), (70, 172680), (73, 172734), (74, 172743), (83, 172851), (92, 172947), (95, 172986), (99, 173028), (101, 173076), (105, 173106), (108, 173133), (109, 173136), (111, 173160), (114, 173190), (115, 173196), (116, 173199), (121, 173223), (122, 173232), (123, 173241), (125, 173283), (128, 173325), (131, 173337), (132, 173349), (137, 173403),

Gene: BooTeria\_191 Start: 135990, Stop: 137357, Start Num: 2

Candidate Starts for BooTeria\_191:

(Start: 2 @135990 has 4 MA's), (9, 136068), (11, 136083), (19, 136161), (25, 136191), (33, 136269), (83, 136764), (87, 136830), (92, 136860), (96, 136917), (97, 136920), (99, 136941), (101, 136998), (107, 137046), (109, 137058), (111, 137082), (120, 137139), (129, 137244),

Gene: Cece\_296 Start: 165108, Stop: 166430, Start Num: 6

Candidate Starts for Cece\_296:

(Start: 6 @165108 has 1 MA's), (23, 165234), (26, 165255), (29, 165282), (30, 165288), (35, 165366), (36, 165369), (37, 165372), (43, 165417), (51, 165498), (52, 165501), (60, 165579), (70, 165693), (71, 165696), (73, 165747), (74, 165756), (78, 165786), (83, 165864), (92, 165960), (94, 165981), (95, 165999), (99, 166041), (101, 166089), (108, 166146), (109, 166149), (112, 166185), (114, 166203), (122, 166245), (123, 166254), (130, 166347), (131, 166350), (132, 166362), (134, 166401), (137, 166416),

Gene: Chilliams\_188 Start: 127149, Stop: 128558, Start Num: 2

Candidate Starts for Chilliams\_188:

(Start: 2 @127149 has 4 MA's), (33, 127425), (34, 127440), (35, 127473), (57, 127668), (62, 127695), (63, 127704), (65, 127725), (77, 127887), (84, 127977), (87, 128040), (101, 128199), (102, 128208), (109, 128259), (110, 128280), (114, 128313), (129, 128445), (133, 128499), (140, 128538),

Gene: DunneganBoMo\_182 Start: 134648, Stop: 136015, Start Num: 2

Candidate Starts for DunneganBoMo\_182:

(Start: 2 @134648 has 4 MA's), (9, 134726), (11, 134741), (19, 134819), (25, 134849), (33, 134927), (68, 135227), (83, 135422), (87, 135488), (92, 135518), (97, 135578), (99, 135599), (101, 135656), (107, 135704), (109, 135716), (111, 135740), (120, 135797), (129, 135902),

Gene: Ellewin\_188 Start: 134726, Stop: 136093, Start Num: 2

Candidate Starts for Ellewin\_188:

(Start: 2 @134726 has 4 MA's), (9, 134804), (11, 134819), (19, 134897), (25, 134927), (33, 135005), (68, 135305), (83, 135500), (87, 135566), (92, 135596), (97, 135656), (99, 135677), (101, 135734), (107, 135782), (109, 135794), (111, 135818), (112, 135830), (120, 135875), (129, 135980),

Gene: Emmetator\_186 Start: 134854, Stop: 136221, Start Num: 2

Candidate Starts for Emmetator\_186:

(Start: 2 @134854 has 4 MA's), (9, 134932), (11, 134947), (19, 135025), (25, 135055), (33, 135133), (83, 135628), (87, 135694), (92, 135724), (97, 135784), (99, 135805), (101, 135862), (107, 135910), (109, 135922), (111, 135946), (120, 136003), (129, 136108),

Gene: Erasmago\_326 Start: 169687, Stop: 170979, Start Num: 4

Candidate Starts for Erasmago\_326:

(Start: 4 @169687 has 2 MA's), (14, 169780), (17, 169786), (22, 169807), (24, 169822), (29, 169861), (37, 169951), (42, 169987), (50, 170059), (63, 170152), (64, 170161), (70, 170251), (73, 170305), (79, 170347), (83, 170422), (90, 170503), (95, 170557), (101, 170647), (105, 170677), (108, 170704), (109, 170707), (111, 170731), (114, 170761), (115, 170767), (116, 170770), (118, 170776), (123, 170812), (131, 170899), (134, 170950), (136, 170962), (139, 170968),

Gene: KSunshine22\_187 Start: 133743, Stop: 135110, Start Num: 2

Candidate Starts for KSunshine22\_187:

(Start: 2 @133743 has 4 MA's), (9, 133821), (11, 133836), (19, 133914), (25, 133944), (33, 134022), (68, 134322), (83, 134517), (87, 134583), (92, 134613), (97, 134673), (99, 134694), (101, 134751), (107, 134799), (109, 134811), (111, 134835), (112, 134847), (120, 134892), (129, 134997),

Gene: Laure\_192 Start: 119610, Stop: 121043, Start Num: 2

Candidate Starts for Laure\_192:

(Start: 2 @119610 has 4 MA's), (5, 119646), (7, 119670), (13, 119745), (15, 119757), (33, 119886), (34, 119901), (38, 119964), (65, 120213), (66, 120231), (68, 120267), (69, 120285), (75, 120357), (77, 120375), (81, 120429), (87, 120528), (100, 120648), (101, 120687), (102, 120696), (109, 120747), (114, 120801), (124, 120867), (129, 120933), (133, 120987), (138, 121011), (141, 121038),

Gene: LeoJr\_193 Start: 130432, Stop: 131829, Start Num: 2

Candidate Starts for LeoJr\_193:

(Start: 2 @130432 has 4 MA's), (19, 130600), (34, 130723), (48, 130831), (83, 131236), (87, 131302), (91, 131323), (96, 131389), (97, 131392), (107, 131518), (109, 131530), (114, 131584), (115, 131590), (120, 131611), (125, 131671), (129, 131716), (133, 131770), (137, 131791),

Gene: NiceHouse\_183 Start: 102440, Stop: 103699, Start Num: 16

Candidate Starts for NiceHouse\_183:

(8, 102359), (Start: 16 @102440 has 1 MA's), (18, 102455), (28, 102527), (31, 102548), (32, 102554), (40, 102656), (47, 102680), (61, 102884), (67, 102968), (72, 103040), (74, 103058), (76, 103064), (82, 103163), (83, 103166), (85, 103202), (86, 103226), (90, 103247), (93, 103280), (98, 103325), (100, 103352), (101, 103382), (102, 103391), (104, 103400), (105, 103412), (106, 103415), (108, 103439), (109, 103442), (113, 103481), (117, 103508), (119, 103520), (121, 103529), (126, 103586), (132, 103640), (134, 103679),

Gene: Panchaali\_196 Start: 136212, Stop: 137588, Start Num: 2

Candidate Starts for Panchaali\_196:

(Start: 2 @136212 has 4 MA's), (11, 136305), (19, 136383), (21, 136392), (33, 136491), (66, 136761), (83, 136992), (87, 137058), (92, 137088), (101, 137229), (109, 137289), (120, 137370), (129, 137475), (133, 137529),

Gene: ReginaGlobina\_197 Start: 131715, Stop: 133112, Start Num: 2

Candidate Starts for ReginaGlobina\_197:

(Start: 2 @131715 has 4 MA's), (19, 131883), (34, 132006), (48, 132114), (54, 132171), (83, 132519), (87, 132585), (91, 132606), (96, 132672), (97, 132675), (107, 132801), (109, 132813), (114, 132867),

(115, 132873), (120, 132894), (125, 132954), (129, 132999), (133, 133053), (137, 133074),

Gene: Rockabye\_193 Start: 125930, Stop: 127336, Start Num: 2

Candidate Starts for Rockabye\_193:

(Start: 2 @125930 has 4 MA's), (3, 125954), (12, 126029), (33, 126206), (34, 126221), (35, 126254), (39, 126287), (57, 126452), (63, 126488), (65, 126509), (75, 126653), (77, 126671), (87, 126824), (98, 126917), (100, 126944), (101, 126983), (102, 126992), (107, 127031), (109, 127043), (110, 127064), (114, 127097), (128, 127226), (129, 127229), (133, 127283), (135, 127292), (140, 127316),

Gene: SJReid\_195 Start: 124741, Stop: 126168, Start Num: 2

Candidate Starts for SJReid\_195:

(Start: 2 @124741 has 4 MA's), (5, 124777), (12, 124840), (27, 124963), (34, 125032), (41, 125104), (64, 125326), (65, 125338), (66, 125356), (74, 125479), (77, 125500), (80, 125527), (87, 125653), (101, 125815), (102, 125824), (109, 125875), (110, 125896), (114, 125929), (129, 126061), (135, 126124), (140, 126148),

Gene: Stewart25555\_186 Start: 133132, Stop: 134508, Start Num: 2

Candidate Starts for Stewart25555\_186:

(1, 132994), (Start: 2 @133132 has 4 MA's), (11, 133225), (19, 133303), (20, 133309), (25, 133333), (33, 133411), (48, 133501), (54, 133558), (83, 133912), (87, 133978), (88, 133984), (89, 133990), (92, 134008), (101, 134149), (103, 134161), (107, 134197), (109, 134209), (112, 134245), (114, 134263), (120, 134290), (129, 134395), (133, 134449),

Gene: WaddleDee\_179 Start: 133921, Stop: 135288, Start Num: 2

Candidate Starts for WaddleDee\_179:

(Start: 2 @133921 has 4 MA's), (9, 133999), (11, 134014), (19, 134092), (25, 134122), (33, 134200), (68, 134500), (83, 134695), (87, 134761), (92, 134791), (97, 134851), (99, 134872), (101, 134929), (107, 134977), (109, 134989), (111, 135013), (120, 135070), (129, 135175),

Gene: Zooman\_310 Start: 173299, Stop: 174645, Start Num: 4

Candidate Starts for Zooman\_310:

(Start: 4 @173299 has 2 MA's), (10, 173344), (14, 173389), (29, 173470), (37, 173560), (44, 173608), (46, 173614), (49, 173662), (50, 173692), (52, 173698), (53, 173716), (55, 173734), (56, 173746), (59, 173773), (66, 173839), (70, 173902), (73, 173956), (74, 173965), (83, 174073), (92, 174169), (95, 174208), (99, 174250), (101, 174298), (105, 174328), (108, 174355), (109, 174358), (114, 174412), (115, 174418), (116, 174421), (121, 174445), (122, 174454), (123, 174463), (127, 174523), (131, 174559), (132, 174571),