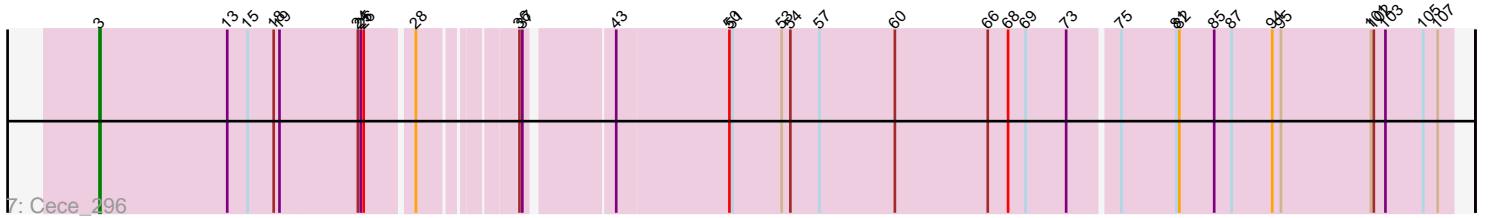
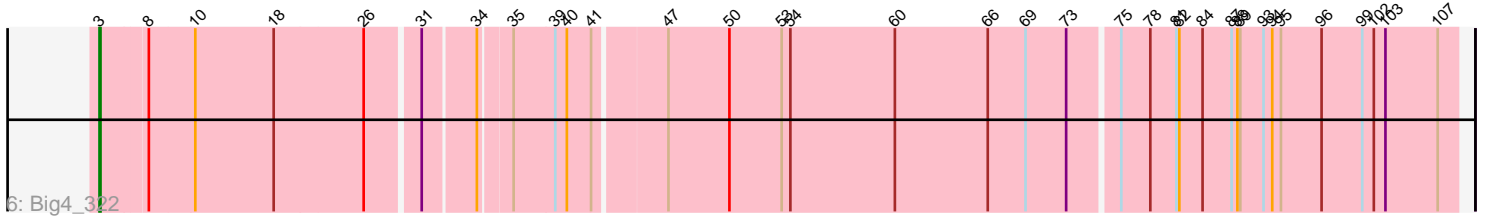
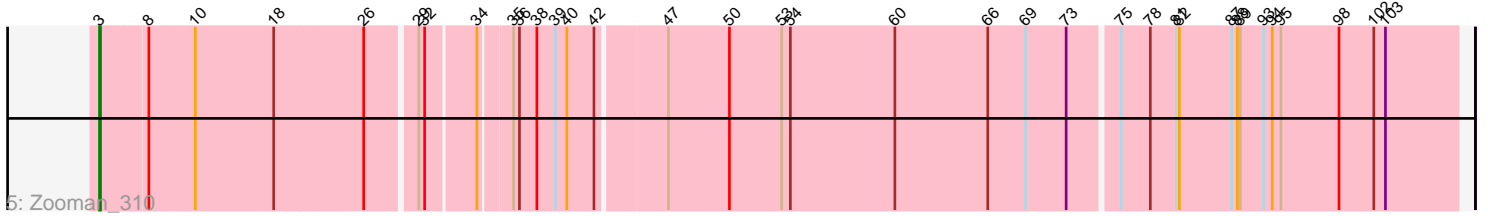
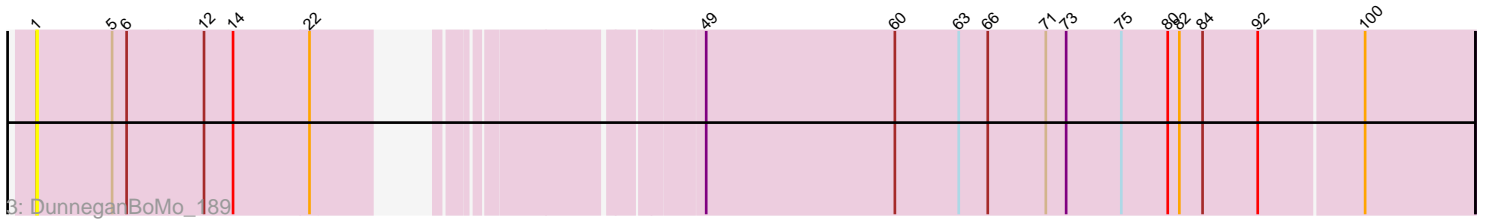
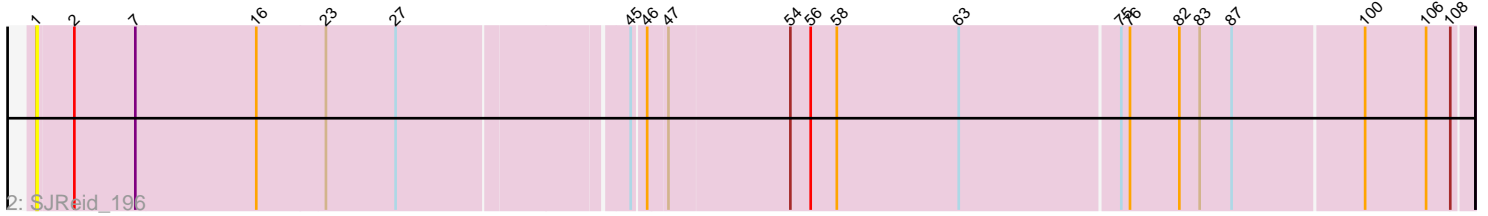
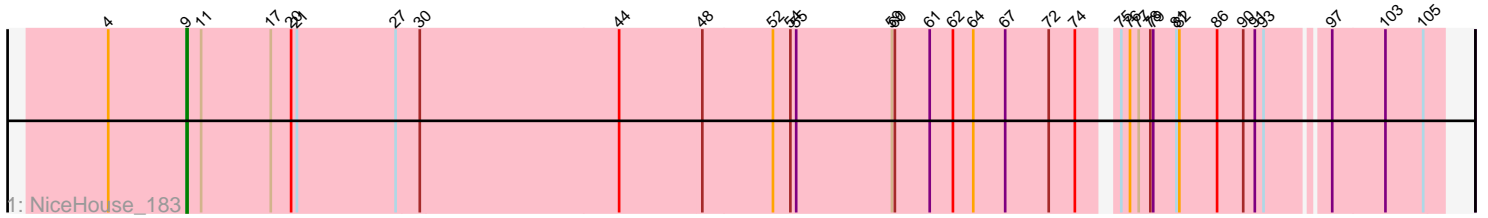


# Pham 181081



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 181081 Report

This analysis was run 11/02/24 on database version 579.

Pham number 181081 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : NiceHouse\_183
- Track 2 : SJReid\_196
- Track 3 : DunneganBoMo\_189
- Track 4 : Atuin\_190
- Track 5 : Zooman\_310
- Track 6 : Big4\_322
- Track 7 : Cece\_296

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

The start number called the most often in the published annotations is 3, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Big4\_322, Cece\_296, Zooman\_310,

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

- 

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

- Atuin\_190, DunneganBoMo\_189, NiceHouse\_183, SJReid\_196,

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

Start 1:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin\_190 (FC), DunneganBoMo\_189 (FC), SJReid\_196 (FC),

Start 3:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 3 of 4

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4\_322 (GD2), Cece\_296 (GD3), Zooman\_310 (GD2),

Start 9:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse\_183 (CE),

### **Summary by clusters:**

There are 4 clusters represented in this pham: FC, GD2, GD3, CE,

Info for manual annotations of cluster CE:

- Start number 9 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster GD2:

- Start number 3 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 3 was manually annotated 1 time for cluster GD3.

### **Gene Information:**

Gene: Atuin\_190 Start: 129878, Stop: 131275, Start Num: 1

Candidate Starts for Atuin\_190:

(1, 129878), (12, 130046), (23, 130169), (33, 130277), (60, 130682), (63, 130748), (65, 130769), (70, 130835), (71, 130838), (80, 130964), (82, 130976), (87, 131030), (88, 131036), (92, 131057), (96, 131117), (100, 131162), (104, 131216), (107, 131237),

Gene: Big4\_322 Start: 172077, Stop: 173423, Start Num: 3

Candidate Starts for Big4\_322:

(Start: 3 @172077 has 3 MA's), (8, 172122), (10, 172167), (18, 172248), (26, 172338), (31, 172389), (34, 172440), (35, 172470), (39, 172512), (40, 172524), (41, 172548), (47, 172617), (50, 172680), (53, 172734), (54, 172743), (60, 172851), (66, 172947), (69, 172986), (73, 173028), (75, 173076), (78, 173106), (81, 173133), (82, 173136), (84, 173160), (87, 173190), (88, 173196), (89, 173199), (93, 173223), (94, 173232), (95, 173241), (96, 173283), (99, 173325), (102, 173337), (103, 173349), (107, 173403),

Gene: Cece\_296 Start: 165108, Stop: 166430, Start Num: 3

Candidate Starts for Cece\_296:

(Start: 3 @165108 has 3 MA's), (13, 165234), (15, 165255), (18, 165282), (19, 165288), (24, 165366), (25, 165369), (26, 165372), (28, 165417), (36, 165498), (37, 165501), (43, 165579), (50, 165693), (51, 165696), (53, 165747), (54, 165756), (57, 165786), (60, 165864), (66, 165960), (68, 165981), (69, 165999), (73, 166041), (75, 166089), (81, 166146), (82, 166149), (85, 166185), (87, 166203), (94, 166245), (95, 166254), (101, 166347), (102, 166350), (103, 166362), (105, 166401), (107, 166416),

Gene: DunneganBoMo\_189 Start: 134648, Stop: 136015, Start Num: 1

Candidate Starts for DunneganBoMo\_189:

(1, 134648), (5, 134726), (6, 134741), (12, 134819), (14, 134849), (22, 134927), (49, 135227), (60, 135422), (63, 135488), (66, 135518), (71, 135578), (73, 135599), (75, 135656), (80, 135704), (82, 135716), (84, 135740), (92, 135797), (100, 135902),

Gene: NiceHouse\_183 Start: 102440, Stop: 103699, Start Num: 9

Candidate Starts for NiceHouse\_183:

(4, 102359), (Start: 9 @102440 has 1 MA's), (11, 102455), (17, 102527), (20, 102548), (21, 102554), (27, 102656), (30, 102680), (44, 102884), (48, 102968), (52, 103040), (54, 103058), (55, 103064), (59, 103163), (60, 103166), (61, 103202), (62, 103226), (64, 103247), (67, 103280), (72, 103325), (74, 103352), (75, 103382), (76, 103391), (77, 103400), (78, 103412), (79, 103415), (81, 103439), (82, 103442), (86, 103481), (90, 103508), (91, 103520), (93, 103529), (97, 103586), (103, 103640), (105, 103679),

Gene: SJReid\_196 Start: 124741, Stop: 126168, Start Num: 1

Candidate Starts for SJReid\_196:

(1, 124741), (2, 124777), (7, 124840), (16, 124963), (23, 125032), (27, 125104), (45, 125326), (46, 125338), (47, 125356), (54, 125479), (56, 125500), (58, 125527), (63, 125653), (75, 125815), (76, 125824), (82, 125875), (83, 125896), (87, 125929), (100, 126061), (106, 126124), (108, 126148),

Gene: Zooman\_310 Start: 173299, Stop: 174645, Start Num: 3

Candidate Starts for Zooman\_310:

(Start: 3 @173299 has 3 MA's), (8, 173344), (10, 173389), (18, 173470), (26, 173560), (29, 173608), (32, 173614), (34, 173662), (35, 173692), (36, 173698), (38, 173716), (39, 173734), (40, 173746), (42, 173773), (47, 173839), (50, 173902), (53, 173956), (54, 173965), (60, 174073), (66, 174169), (69, 174208), (73, 174250), (75, 174298), (78, 174328), (81, 174355), (82, 174358), (87, 174412), (88, 174418), (89, 174421), (93, 174445), (94, 174454), (95, 174463), (98, 174523), (102, 174559), (103, 174571),