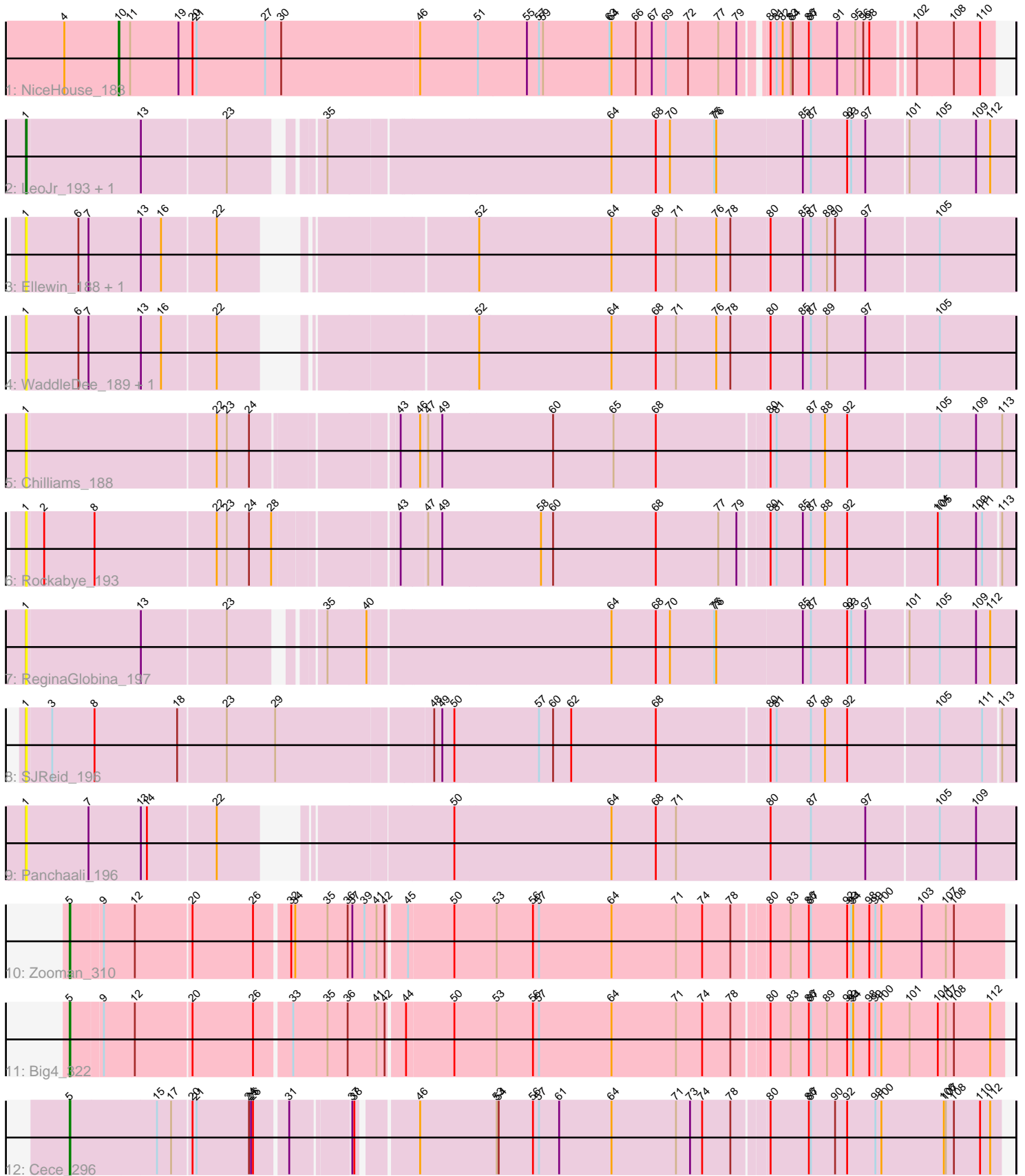


Pham 223521



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 223521 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223521 has 15 members, 10 are drafts.

Phages represented in each track:

- Track 1 : NiceHouse_183
- Track 2 : LeoJr_193, Atuin_184
- Track 3 : Ellewin_188, KSunshine22_187
- Track 4 : WaddleDee_189, DunneganBoMo_189
- Track 5 : Chilliams_188
- Track 6 : Rockabye_193
- Track 7 : ReginaGlobina_197
- Track 8 : SJReid_196
- Track 9 : Panchaali_196
- Track 10 : Zooman_310
- Track 11 : Big4_322
- Track 12 : 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 5, it was called in 3 of the 5 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_184, Chilliams_188, DunneganBoMo_189, Ellewin_188, KSunshine22_187, LeoJr_193, NiceHouse_183, Panchaali_196, ReginaGlobina_197, Rockabye_193, SJReid_196, WaddleDee_189,

Summary by start number:

Start 1:

- Found in 11 of 15 (73.3%) of genes in pham
- Manual Annotations of this start: 1 of 5

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_184 (FC), Chilliams_188 (FC), DunneganBoMo_189 (FC), Ellewin_188 (FC), KSunshine22_187 (FC), LeoJr_193 (FC), Panchaali_196 (FC), ReginaGlobina_197 (FC), Rockabye_193 (FC), SJReid_196 (FC), WaddleDee_189 (FC),

Start 5:

- Found in 3 of 15 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4_322 (GD2), Cece_296 (GD3), Zooman_310 (GD2),

Start 10:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 5
- 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 10 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD2:

- Start number 5 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 5 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: Atuin_184 Start: 129878, Stop: 131275, Start Num: 1

Candidate Starts for Atuin_184:

(Start: 1 @129878 has 1 MA's), (13, 130046), (23, 130169), (35, 130277), (64, 130682), (68, 130748), (70, 130769), (75, 130835), (76, 130838), (85, 130964), (87, 130976), (92, 131030), (93, 131036), (97, 131057), (101, 131117), (105, 131162), (109, 131216), (112, 131237),

Gene: Big4_322 Start: 172077, Stop: 173423, Start Num: 5

Candidate Starts for Big4_322:

(Start: 5 @172077 has 3 MA's), (9, 172122), (12, 172167), (20, 172248), (26, 172338), (33, 172389), (35, 172440), (36, 172470), (41, 172512), (42, 172524), (44, 172548), (50, 172617), (53, 172680), (56, 172734), (57, 172743), (64, 172851), (71, 172947), (74, 172986), (78, 173028), (80, 173076), (83, 173106), (86, 173133), (87, 173136), (89, 173160), (92, 173190), (93, 173196), (94, 173199), (98, 173223), (99, 173232), (100, 173241), (101, 173283), (104, 173325), (107, 173337), (108, 173349), (112, 173403),

Gene: Cece_296 Start: 165108, Stop: 166430, Start Num: 5

Candidate Starts for Cece_296:

(Start: 5 @165108 has 3 MA's), (15, 165234), (17, 165255), (20, 165282), (21, 165288), (24, 165366), (25, 165369), (26, 165372), (31, 165417), (37, 165498), (38, 165501), (46, 165579), (53, 165693), (54, 165696), (56, 165747), (57, 165756), (61, 165786), (64, 165864), (71, 165960), (73, 165981), (74, 165999), (78, 166041), (80, 166089), (86, 166146), (87, 166149), (90, 166185), (92, 166203), (99, 166245), (100, 166254), (106, 166347), (107, 166350), (108, 166362), (110, 166401), (112, 166416),

Gene: Chilliams_188 Start: 127149, Stop: 128558, Start Num: 1

Candidate Starts for Chilliams_188:

(Start: 1 @127149 has 1 MA's), (22, 127425), (23, 127440), (24, 127473), (43, 127668), (46, 127695), (47, 127704), (49, 127725), (60, 127887), (65, 127977), (68, 128040), (80, 128199), (81, 128208), (87, 128259), (88, 128280), (92, 128313), (105, 128445), (109, 128499), (113, 128538),

Gene: DunneganBoMo_189 Start: 134648, Stop: 136015, Start Num: 1

Candidate Starts for DunneganBoMo_189:

(Start: 1 @134648 has 1 MA's), (6, 134726), (7, 134741), (13, 134819), (16, 134849), (22, 134927), (52, 135227), (64, 135422), (68, 135488), (71, 135518), (76, 135578), (78, 135599), (80, 135656), (85, 135704), (87, 135716), (89, 135740), (97, 135797), (105, 135902),

Gene: Ellewin_188 Start: 134726, Stop: 136093, Start Num: 1

Candidate Starts for Ellewin_188:

(Start: 1 @134726 has 1 MA's), (6, 134804), (7, 134819), (13, 134897), (16, 134927), (22, 135005), (52, 135305), (64, 135500), (68, 135566), (71, 135596), (76, 135656), (78, 135677), (80, 135734), (85, 135782), (87, 135794), (89, 135818), (90, 135830), (97, 135875), (105, 135980),

Gene: KSunshine22_187 Start: 133743, Stop: 135110, Start Num: 1

Candidate Starts for KSunshine22_187:

(Start: 1 @133743 has 1 MA's), (6, 133821), (7, 133836), (13, 133914), (16, 133944), (22, 134022), (52, 134322), (64, 134517), (68, 134583), (71, 134613), (76, 134673), (78, 134694), (80, 134751), (85, 134799), (87, 134811), (89, 134835), (90, 134847), (97, 134892), (105, 134997),

Gene: LeoJr_193 Start: 130432, Stop: 131829, Start Num: 1

Candidate Starts for LeoJr_193:

(Start: 1 @130432 has 1 MA's), (13, 130600), (23, 130723), (35, 130831), (64, 131236), (68, 131302), (70, 131323), (75, 131389), (76, 131392), (85, 131518), (87, 131530), (92, 131584), (93, 131590), (97, 131611), (101, 131671), (105, 131716), (109, 131770), (112, 131791),

Gene: NiceHouse_183 Start: 102440, Stop: 103699, Start Num: 10

Candidate Starts for NiceHouse_183:

(4, 102359), (Start: 10 @102440 has 1 MA's), (11, 102455), (19, 102527), (20, 102548), (21, 102554), (27, 102656), (30, 102680), (46, 102884), (51, 102968), (55, 103040), (57, 103058), (59, 103064), (63, 103163), (64, 103166), (66, 103202), (67, 103226), (69, 103247), (72, 103280), (77, 103325), (79, 103352), (80, 103382), (81, 103391), (82, 103400), (83, 103412), (84, 103415), (86, 103439), (87, 103442), (91, 103481), (95, 103508), (96, 103520), (98, 103529), (102, 103586), (108, 103640), (110, 103679),

Gene: Panchaali_196 Start: 136212, Stop: 137588, Start Num: 1

Candidate Starts for Panchaali_196:

(Start: 1 @136212 has 1 MA's), (7, 136305), (13, 136383), (14, 136392), (22, 136491), (50, 136761), (64, 136992), (68, 137058), (71, 137088), (80, 137229), (87, 137289), (97, 137370), (105, 137475), (109, 137529),

Gene: ReginaGlobina_197 Start: 131715, Stop: 133112, Start Num: 1

Candidate Starts for ReginaGlobina_197:

(Start: 1 @131715 has 1 MA's), (13, 131883), (23, 132006), (35, 132114), (40, 132171), (64, 132519), (68, 132585), (70, 132606), (75, 132672), (76, 132675), (85, 132801), (87, 132813), (92, 132867), (93, 132873), (97, 132894), (101, 132954), (105, 132999), (109, 133053), (112, 133074),

Gene: Rockabye_193 Start: 125930, Stop: 127336, Start Num: 1

Candidate Starts for Rockabye_193:

(Start: 1 @125930 has 1 MA's), (2, 125954), (8, 126029), (22, 126206), (23, 126221), (24, 126254), (28, 126287), (43, 126452), (47, 126488), (49, 126509), (58, 126653), (60, 126671), (68, 126824), (77, 126917), (79, 126944), (80, 126983), (81, 126992), (85, 127031), (87, 127043), (88, 127064), (92, 127097), (104, 127226), (105, 127229), (109, 127283), (111, 127292), (113, 127316),

Gene: SJReid_196 Start: 124741, Stop: 126168, Start Num: 1

Candidate Starts for SJReid_196:

(Start: 1 @124741 has 1 MA's), (3, 124777), (8, 124840), (18, 124963), (23, 125032), (29, 125104), (48, 125326), (49, 125338), (50, 125356), (57, 125479), (60, 125500), (62, 125527), (68, 125653), (80, 125815), (81, 125824), (87, 125875), (88, 125896), (92, 125929), (105, 126061), (111, 126124), (113, 126148),

Gene: WaddleDee_189 Start: 133921, Stop: 135288, Start Num: 1

Candidate Starts for WaddleDee_189:

(Start: 1 @133921 has 1 MA's), (6, 133999), (7, 134014), (13, 134092), (16, 134122), (22, 134200), (52, 134500), (64, 134695), (68, 134761), (71, 134791), (76, 134851), (78, 134872), (80, 134929), (85, 134977), (87, 134989), (89, 135013), (97, 135070), (105, 135175),

Gene: Zooman_310 Start: 173299, Stop: 174645, Start Num: 5

Candidate Starts for Zooman_310:

(Start: 5 @173299 has 3 MA's), (9, 173344), (12, 173389), (20, 173470), (26, 173560), (32, 173608), (34, 173614), (35, 173662), (36, 173692), (37, 173698), (39, 173716), (41, 173734), (42, 173746), (45, 173773), (50, 173839), (53, 173902), (56, 173956), (57, 173965), (64, 174073), (71, 174169), (74, 174208), (78, 174250), (80, 174298), (83, 174328), (86, 174355), (87, 174358), (92, 174412), (93, 174418), (94, 174421), (98, 174445), (99, 174454), (100, 174463), (103, 174523), (107, 174559), (108, 174571),