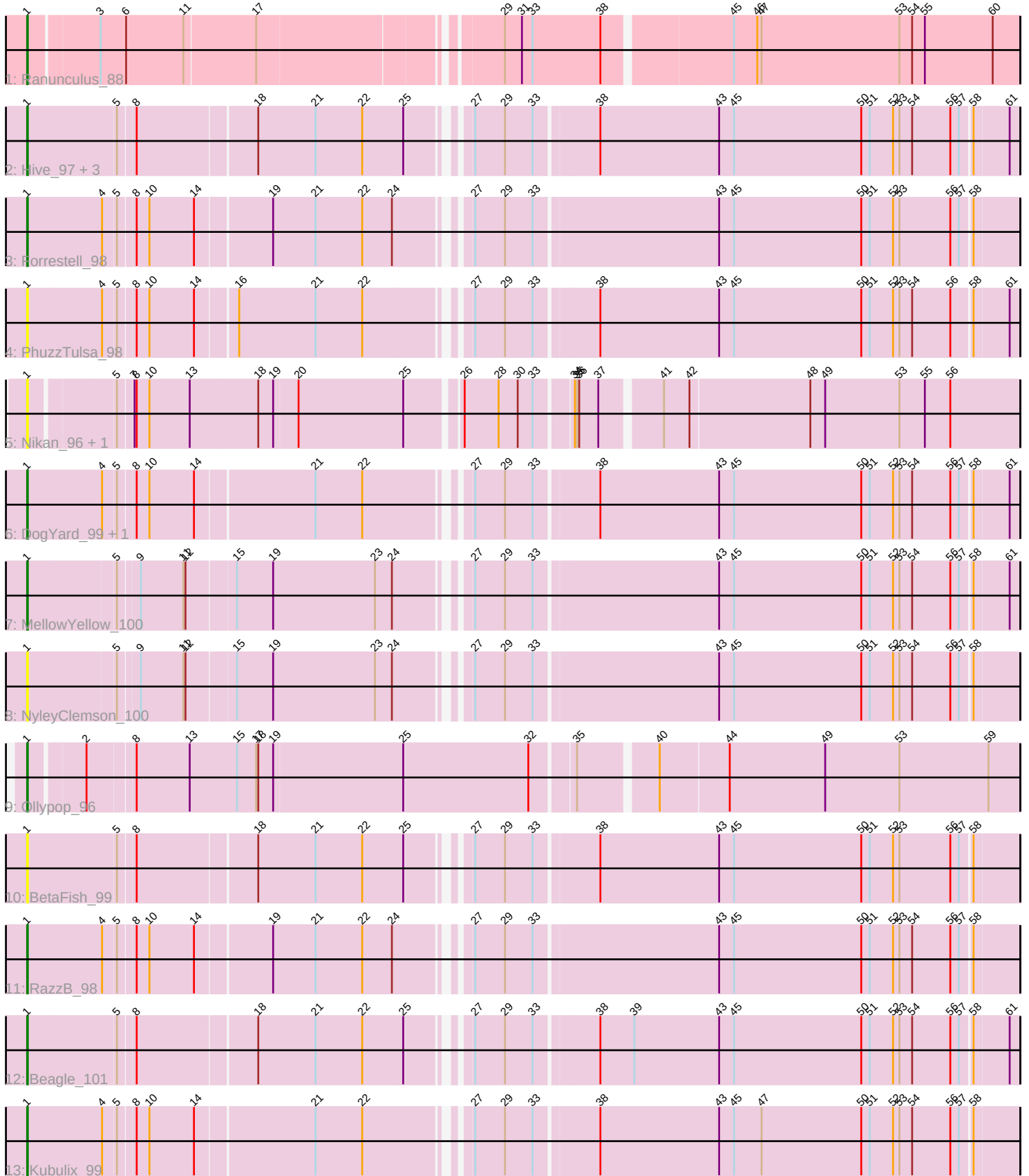


Pham 245625



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 245625 Report

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

Pham number 245625 has 18 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_88
- Track 2 : Hive_97, Popstraw_95, Pureglobe5_99, Pointis_96
- Track 3 : Forrestell_98
- Track 4 : PhuzzTulsa_98
- Track 5 : Nikan_96, Ren19_91
- Track 6 : DogYard_99, Odyssey395_99
- Track 7 : MellowYellow_100
- Track 8 : NyleyClemson_100
- Track 9 : Ollypop_96
- Track 10 : BetaFish_99
- Track 11 : RazzB_98
- Track 12 : Beagle_101
- Track 13 : Kubulix_99

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle_101, BetaFish_99, DogYard_99, Forrestell_98, Hive_97, Kubulix_99, MellowYellow_100, Nikan_96, NyleyClemson_100, Odyssey395_99, Ollypop_96, PhuzzTulsa_98, Pointis_96, Popstraw_95, Pureglobe5_99, Ranunculus_88, RazzB_98, Ren19_91,

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

-

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

-

Summary by start number:

Start 1:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_101 (AP2), BetaFish_99 (AP2), DogYard_99 (AP2), Forrestell_98 (AP2), Hive_97 (AP2), Kubulix_99 (AP2), MellowYellow_100 (AP2), Nikan_96 (AP2), NyleyClemson_100 (AP2), Odyssey395_99 (AP2), Ollypop_96 (AP2), PhuzzTulsa_98 (AP2), Pointis_96 (AP2), Popstraw_95 (AP2), Pureglobe5_99 (AP2), Ranunculus_88 (AP), RazzB_98 (AP2), Ren19_91 (AP2),

Summary by clusters:

There are 2 clusters represented in this pham: AP2, AP,

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP2:

- Start number 1 was manually annotated 10 times for cluster AP2.

Gene Information:

Gene: Beagle_101 Start: 59990, Stop: 58668, Start Num: 1

Candidate Starts for Beagle_101:

(Start: 1 @59990 has 11 MA's), (5, 59867), (8, 59846), (18, 59684), (21, 59603), (22, 59537), (25, 59480), (27, 59417), (29, 59375), (33, 59336), (38, 59252), (39, 59204), (43, 59084), (45, 59063), (50, 58883), (51, 58871), (52, 58838), (53, 58829), (54, 58811), (56, 58757), (57, 58745), (58, 58730), (61, 58682),

Gene: BetaFish_99 Start: 60205, Stop: 58883, Start Num: 1

Candidate Starts for BetaFish_99:

(Start: 1 @60205 has 11 MA's), (5, 60082), (8, 60061), (18, 59899), (21, 59818), (22, 59752), (25, 59695), (27, 59632), (29, 59590), (33, 59551), (38, 59467), (43, 59299), (45, 59278), (50, 59098), (51, 59086), (52, 59053), (53, 59044), (56, 58972), (57, 58960), (58, 58945),

Gene: DogYard_99 Start: 59698, Stop: 58373, Start Num: 1

Candidate Starts for DogYard_99:

(Start: 1 @59698 has 11 MA's), (4, 59593), (5, 59575), (8, 59554), (10, 59536), (14, 59473), (21, 59311), (22, 59245), (27, 59122), (29, 59080), (33, 59041), (38, 58957), (43, 58789), (45, 58768), (50, 58588), (51, 58576), (52, 58543), (53, 58534), (54, 58516), (56, 58462), (57, 58450), (58, 58435), (61, 58387),

Gene: Forrestell_98 Start: 58406, Stop: 57081, Start Num: 1

Candidate Starts for Forrestell_98:

(Start: 1 @58406 has 11 MA's), (4, 58301), (5, 58283), (8, 58262), (10, 58244), (14, 58181), (19, 58079), (21, 58019), (22, 57953), (24, 57911), (27, 57830), (29, 57788), (33, 57749), (43, 57497), (45, 57476), (50, 57296), (51, 57284), (52, 57251), (53, 57242), (56, 57170), (57, 57158), (58, 57143),

Gene: Hive_97 Start: 59680, Stop: 58358, Start Num: 1

Candidate Starts for Hive_97:

(Start: 1 @59680 has 11 MA's), (5, 59557), (8, 59536), (18, 59374), (21, 59293), (22, 59227), (25, 59170), (27, 59107), (29, 59065), (33, 59026), (38, 58942), (43, 58774), (45, 58753), (50, 58573), (51, 58561), (52, 58528), (53, 58519), (54, 58501), (56, 58447), (57, 58435), (58, 58420), (61, 58372),

Gene: Kubulix_99 Start: 59365, Stop: 58040, Start Num: 1

Candidate Starts for Kubulix_99:

(Start: 1 @59365 has 11 MA's), (4, 59260), (5, 59242), (8, 59221), (10, 59203), (14, 59140), (21, 58978), (22, 58912), (27, 58789), (29, 58747), (33, 58708), (38, 58624), (43, 58456), (45, 58435), (47, 58396), (50, 58255), (51, 58243), (52, 58210), (53, 58201), (54, 58183), (56, 58129), (57, 58117), (58, 58102),

Gene: MellowYellow_100 Start: 59608, Stop: 58283, Start Num: 1

Candidate Starts for MellowYellow_100:

(Start: 1 @59608 has 11 MA's), (5, 59488), (9, 59461), (11, 59401), (12, 59398), (15, 59332), (19, 59281), (23, 59137), (24, 59113), (27, 59032), (29, 58990), (33, 58951), (43, 58699), (45, 58678), (50, 58498), (51, 58486), (52, 58453), (53, 58444), (54, 58426), (56, 58372), (57, 58360), (58, 58345), (61, 58297),

Gene: Nikan_96 Start: 59380, Stop: 58061, Start Num: 1

Candidate Starts for Nikan_96:

(Start: 1 @59380 has 11 MA's), (5, 59272), (7, 59254), (8, 59251), (10, 59233), (13, 59176), (18, 59080), (19, 59059), (20, 59026), (25, 58879), (26, 58813), (28, 58765), (30, 58738), (33, 58717), (34, 58669), (35, 58666), (36, 58663), (37, 58636), (41, 58558), (42, 58522), (48, 58357), (49, 58336), (53, 58231), (55, 58195), (56, 58159),

Gene: NyleyClemson_100 Start: 59238, Stop: 57913, Start Num: 1

Candidate Starts for NyleyClemson_100:

(Start: 1 @59238 has 11 MA's), (5, 59118), (9, 59091), (11, 59031), (12, 59028), (15, 58962), (19, 58911), (23, 58767), (24, 58743), (27, 58662), (29, 58620), (33, 58581), (43, 58329), (45, 58308), (50, 58128), (51, 58116), (52, 58083), (53, 58074), (54, 58056), (56, 58002), (57, 57990), (58, 57975),

Gene: Odyssey395_99 Start: 59388, Stop: 58063, Start Num: 1

Candidate Starts for Odyssey395_99:

(Start: 1 @59388 has 11 MA's), (4, 59283), (5, 59265), (8, 59244), (10, 59226), (14, 59163), (21, 59001), (22, 58935), (27, 58812), (29, 58770), (33, 58731), (38, 58647), (43, 58479), (45, 58458), (50, 58278), (51, 58266), (52, 58233), (53, 58224), (54, 58206), (56, 58152), (57, 58140), (58, 58125), (61, 58077),

Gene: Ollypop_96 Start: 60723, Stop: 59386, Start Num: 1

Candidate Starts for Ollypop_96:

(Start: 1 @60723 has 11 MA's), (2, 60654), (8, 60594), (13, 60519), (15, 60453), (17, 60426), (18, 60423), (19, 60402), (25, 60222), (32, 60048), (35, 59991), (40, 59889), (44, 59796), (49, 59661), (53, 59556), (59, 59430),

Gene: PhuzzTulsa_98 Start: 59836, Stop: 58511, Start Num: 1

Candidate Starts for PhuzzTulsa_98:

(Start: 1 @59836 has 11 MA's), (4, 59731), (5, 59713), (8, 59692), (10, 59674), (14, 59611), (16, 59557), (21, 59449), (22, 59383), (27, 59260), (29, 59218), (33, 59179), (38, 59095), (43, 58927), (45, 58906), (50, 58726), (51, 58714), (52, 58681), (53, 58672), (54, 58654), (56, 58600), (58, 58573), (61, 58525),

Gene: Pointis_96 Start: 59281, Stop: 57959, Start Num: 1

Candidate Starts for Pointis_96:

(Start: 1 @59281 has 11 MA's), (5, 59158), (8, 59137), (18, 58975), (21, 58894), (22, 58828), (25, 58771), (27, 58708), (29, 58666), (33, 58627), (38, 58543), (43, 58375), (45, 58354), (50, 58174), (51, 58162), (52, 58129), (53, 58120), (54, 58102), (56, 58048), (57, 58036), (58, 58021), (61, 57973),

Gene: Popstraw_95 Start: 59457, Stop: 58135, Start Num: 1

Candidate Starts for Popstraw_95:

(Start: 1 @59457 has 11 MA's), (5, 59334), (8, 59313), (18, 59151), (21, 59070), (22, 59004), (25, 58947), (27, 58884), (29, 58842), (33, 58803), (38, 58719), (43, 58551), (45, 58530), (50, 58350), (51, 58338), (52, 58305), (53, 58296), (54, 58278), (56, 58224), (57, 58212), (58, 58197), (61, 58149),

Gene: Pureglobe5_99 Start: 59946, Stop: 58624, Start Num: 1

Candidate Starts for Pureglobe5_99:

(Start: 1 @59946 has 11 MA's), (5, 59823), (8, 59802), (18, 59640), (21, 59559), (22, 59493), (25, 59436), (27, 59373), (29, 59331), (33, 59292), (38, 59208), (43, 59040), (45, 59019), (50, 58839), (51, 58827), (52, 58794), (53, 58785), (54, 58767), (56, 58713), (57, 58701), (58, 58686), (61, 58638),

Gene: Ranunculus_88 Start: 60245, Stop: 58917, Start Num: 1

Candidate Starts for Ranunculus_88:

(Start: 1 @60245 has 11 MA's), (3, 60152), (6, 60116), (11, 60035), (17, 59936), (29, 59624), (31, 59600), (33, 59585), (38, 59489), (45, 59321), (46, 59288), (47, 59282), (53, 59087), (54, 59069), (55, 59051), (60, 58955),

Gene: RazzB_98 Start: 58818, Stop: 57493, Start Num: 1

Candidate Starts for RazzB_98:

(Start: 1 @58818 has 11 MA's), (4, 58713), (5, 58695), (8, 58674), (10, 58656), (14, 58593), (19, 58491), (21, 58431), (22, 58365), (24, 58323), (27, 58242), (29, 58200), (33, 58161), (43, 57909), (45, 57888), (50, 57708), (51, 57696), (52, 57663), (53, 57654), (54, 57636), (56, 57582), (57, 57570), (58, 57555),

Gene: Ren19_91 Start: 58405, Stop: 57086, Start Num: 1

Candidate Starts for Ren19_91:

(Start: 1 @58405 has 11 MA's), (5, 58297), (7, 58279), (8, 58276), (10, 58258), (13, 58201), (18, 58105), (19, 58084), (20, 58051), (25, 57904), (26, 57838), (28, 57790), (30, 57763), (33, 57742), (34, 57694), (35, 57691), (36, 57688), (37, 57661), (41, 57583), (42, 57547), (48, 57382), (49, 57361), (53, 57256), (55, 57220), (56, 57184),