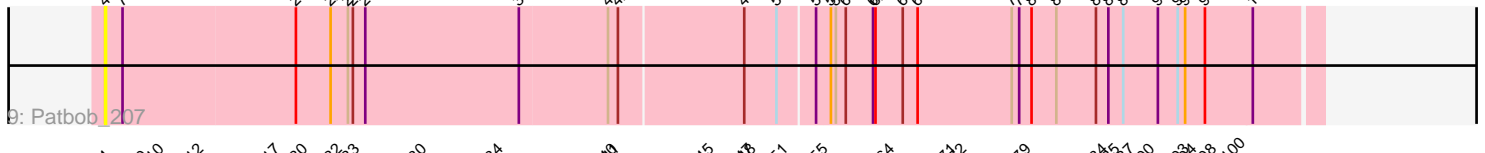
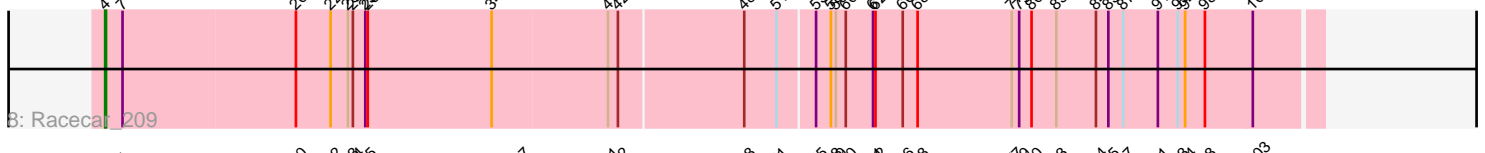
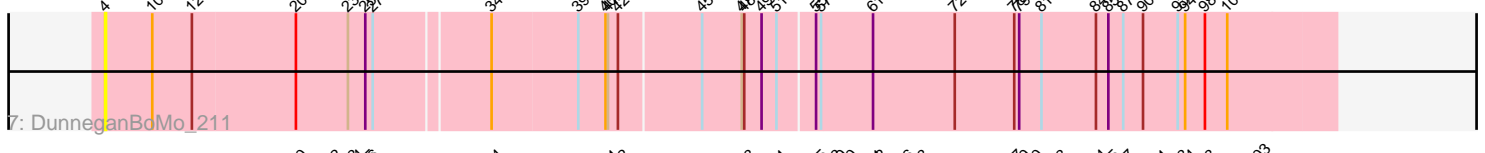
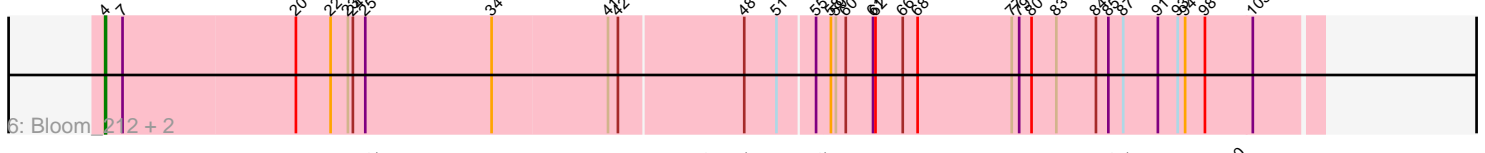
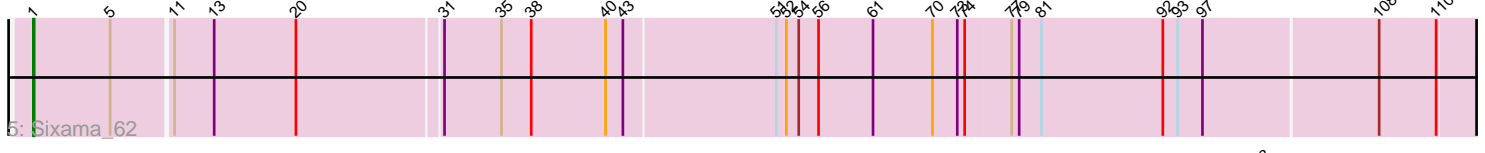
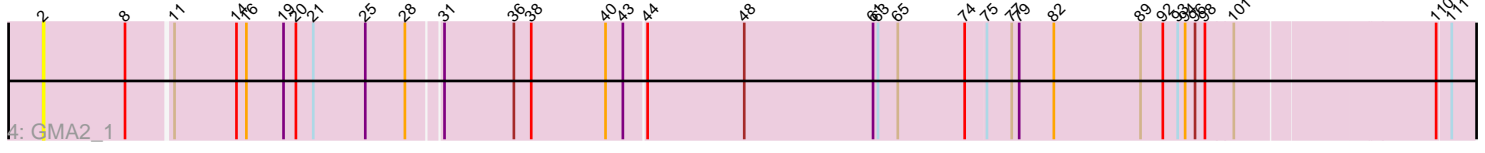
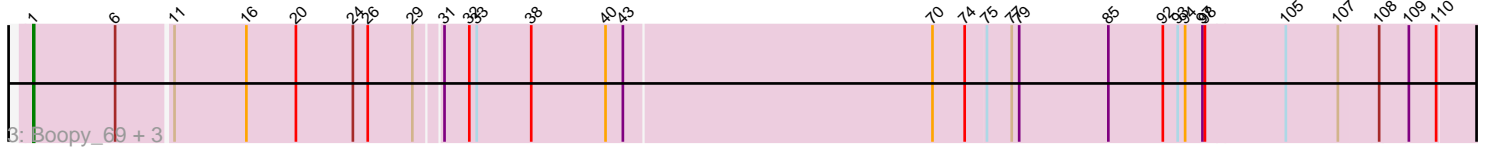
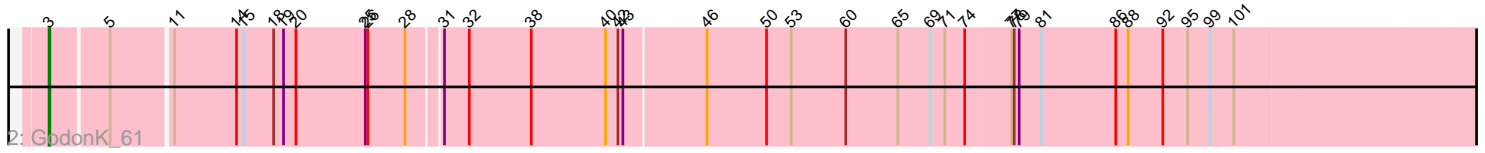


Pham 196926



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 196926 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196926 has 16 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Phendrix_60
- Track 2 : GodonK_61
- Track 3 : Boopy_69, BlueNGold_67, Forza_69, Mareelih_67
- Track 4 : GMA2_1
- Track 5 : Sixama_62
- Track 6 : Bloom_212, Talia1610_209, Mimi_213
- Track 7 : DunneganBoMo_211
- Track 8 : Racecar_209
- Track 9 : Patbob_207
- Track 10 : Atuin_208
- Track 11 : SJReid_214

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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueNGold_67, Boopy_69, Forza_69, Mareelih_67, Sixama_62,

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

-

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

- Atuin_208, Bloom_212, DunneganBoMo_211, GMA2_1, GodonK_61, Mimi_213, Patbob_207, Phendrix_60, Racecar_209, SJReid_214, Talia1610_209,

Summary by start number:

Start 1:

- Found in 5 of 16 (31.2%) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BlueNGold_67 (DS), Boopy_69 (DS), Forza_69 (DS), Mareelih_67 (DS), Sixama_62 (DS),

Start 2:

- Found in 1 of 16 (6.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_1 (DS),

Start 3:

- Found in 2 of 16 (12.5%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_61 (DK), Phendrix_60 (DK),

Start 4:

- Found in 8 of 16 (50.0%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_208 (FC), Bloom_212 (FC), DunneganBoMo_211 (FC), Mimi_213 (FC), Patbob_207 (FC), Racecar_209 (FC), SJReid_214 (FC), Talia1610_209 (FC),

Summary by clusters:

There are 3 clusters represented in this pham: FC, DS, DK,

Info for manual annotations of cluster DK:

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

Info for manual annotations of cluster DS:

- Start number 1 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FC:

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

Gene Information:

Gene: Atuin_208 Start: 142914, Stop: 141436, Start Num: 4

Candidate Starts for Atuin_208:

(Start: 4 @142914 has 2 MA's), (9, 142869), (10, 142857), (12, 142809), (17, 142719), (20, 142686), (22, 142644), (23, 142623), (30, 142542), (34, 142449), (40, 142314), (41, 142311), (45, 142203), (47, 142155), (48, 142152), (51, 142113), (55, 142071), (64, 141993), (71, 141918), (72, 141906), (79, 141828), (84, 141735), (85, 141720), (87, 141702), (90, 141678), (93, 141636), (94, 141627), (98, 141603), (100, 141576),

Gene: Bloom_212 Start: 144896, Stop: 143451, Start Num: 4

Candidate Starts for Bloom_212:

(Start: 4 @144896 has 2 MA's), (7, 144875), (20, 144668), (22, 144626), (23, 144605), (24, 144599), (25, 144584), (34, 144431), (41, 144293), (42, 144281), (48, 144134), (51, 144095), (55, 144053), (58, 144038), (59, 144032), (60, 144020), (61, 143987), (62, 143984), (66, 143951), (68, 143933), (77,

143819), (79, 143810), (80, 143795), (83, 143765), (84, 143717), (85, 143702), (87, 143684), (91, 143642), (93, 143618), (94, 143609), (98, 143585), (103, 143528),

Gene: BlueNGold_67 Start: 25140, Stop: 26858, Start Num: 1

Candidate Starts for BlueNGold_67:

(Start: 1 @25140 has 5 MA's), (6, 25239), (11, 25302), (16, 25389), (20, 25449), (24, 25518), (26, 25536), (29, 25590), (31, 25617), (32, 25647), (33, 25656), (38, 25722), (40, 25812), (43, 25833), (70, 26202), (74, 26241), (75, 26265), (77, 26295), (79, 26304), (85, 26412), (92, 26478), (93, 26496), (94, 26505), (97, 26526), (98, 26529), (105, 26625), (107, 26688), (108, 26733), (109, 26766), (110, 26799),

Gene: Boopy_69 Start: 25152, Stop: 26870, Start Num: 1

Candidate Starts for Boopy_69:

(Start: 1 @25152 has 5 MA's), (6, 25251), (11, 25314), (16, 25401), (20, 25461), (24, 25530), (26, 25548), (29, 25602), (31, 25629), (32, 25659), (33, 25668), (38, 25734), (40, 25824), (43, 25845), (70, 26214), (74, 26253), (75, 26277), (77, 26307), (79, 26316), (85, 26424), (92, 26490), (93, 26508), (94, 26517), (97, 26538), (98, 26541), (105, 26637), (107, 26700), (108, 26745), (109, 26778), (110, 26811),

Gene: DunneganBoMo_211 Start: 148697, Stop: 147243, Start Num: 4

Candidate Starts for DunneganBoMo_211:

(Start: 4 @148697 has 2 MA's), (10, 148640), (12, 148592), (20, 148469), (23, 148406), (25, 148385), (27, 148376), (34, 148244), (39, 148142), (40, 148109), (41, 148106), (42, 148094), (45, 147998), (47, 147950), (48, 147947), (49, 147926), (51, 147908), (55, 147866), (57, 147860), (61, 147800), (72, 147701), (78, 147629), (79, 147623), (81, 147596), (84, 147530), (85, 147515), (87, 147497), (90, 147473), (93, 147431), (94, 147422), (98, 147398), (100, 147371),

Gene: Forza_69 Start: 25068, Stop: 26786, Start Num: 1

Candidate Starts for Forza_69:

(Start: 1 @25068 has 5 MA's), (6, 25167), (11, 25230), (16, 25317), (20, 25377), (24, 25446), (26, 25464), (29, 25518), (31, 25545), (32, 25575), (33, 25584), (38, 25650), (40, 25740), (43, 25761), (70, 26130), (74, 26169), (75, 26193), (77, 26223), (79, 26232), (85, 26340), (92, 26406), (93, 26424), (94, 26433), (97, 26454), (98, 26457), (105, 26553), (107, 26616), (108, 26661), (109, 26694), (110, 26727),

Gene: GMA2_1 Start: 138, Stop: 1817, Start Num: 2

Candidate Starts for GMA2_1:

(2, 138), (8, 237), (11, 288), (14, 363), (16, 375), (19, 420), (20, 435), (21, 456), (25, 519), (28, 567), (31, 603), (36, 687), (38, 708), (40, 798), (43, 819), (44, 843), (48, 960), (61, 1116), (63, 1122), (65, 1146), (74, 1227), (75, 1251), (77, 1281), (79, 1290), (82, 1332), (89, 1437), (92, 1464), (93, 1482), (94, 1491), (96, 1503), (98, 1515), (101, 1548), (110, 1776), (111, 1791),

Gene: GodonK_61 Start: 20550, Stop: 22244, Start Num: 3

Candidate Starts for GodonK_61:

(Start: 3 @20550 has 2 MA's), (5, 20613), (11, 20682), (14, 20757), (15, 20766), (18, 20802), (19, 20814), (20, 20829), (25, 20913), (26, 20916), (28, 20961), (31, 20997), (32, 21027), (38, 21102), (40, 21192), (42, 21207), (43, 21213), (46, 21309), (50, 21381), (53, 21411), (60, 21477), (65, 21540), (69, 21579), (71, 21597), (74, 21621), (77, 21675), (78, 21678), (79, 21684), (81, 21711), (86, 21801), (88, 21816), (92, 21858), (95, 21888), (99, 21915), (101, 21942),

Gene: Mareelih_67 Start: 24570, Stop: 26288, Start Num: 1

Candidate Starts for Mareelih_67:

(Start: 1 @24570 has 5 MA's), (6, 24669), (11, 24732), (16, 24819), (20, 24879), (24, 24948), (26, 24966), (29, 25020), (31, 25047), (32, 25077), (33, 25086), (38, 25152), (40, 25242), (43, 25263), (70, 25632), (74, 25671), (75, 25695), (77, 25725), (79, 25734), (85, 25842), (92, 25908), (93, 25926), (94, 25935), (97, 25956), (98, 25959), (105, 26055), (107, 26118), (108, 26163), (109, 26196), (110, 26229),

Gene: Mimi_213 Start: 144271, Stop: 142826, Start Num: 4

Candidate Starts for Mimi_213:

(Start: 4 @144271 has 2 MA's), (7, 144250), (20, 144043), (22, 144001), (23, 143980), (24, 143974), (25, 143959), (34, 143806), (41, 143668), (42, 143656), (48, 143509), (51, 143470), (55, 143428), (58, 143413), (59, 143407), (60, 143395), (61, 143362), (62, 143359), (66, 143326), (68, 143308), (77, 143194), (79, 143185), (80, 143170), (83, 143140), (84, 143092), (85, 143077), (87, 143059), (91, 143017), (93, 142993), (94, 142984), (98, 142960), (103, 142903),

Gene: Patbob_207 Start: 144669, Stop: 143224, Start Num: 4

Candidate Starts for Patbob_207:

(Start: 4 @144669 has 2 MA's), (7, 144648), (20, 144441), (22, 144399), (23, 144378), (24, 144372), (25, 144357), (37, 144171), (41, 144066), (42, 144054), (48, 143907), (51, 143868), (55, 143826), (58, 143811), (59, 143805), (60, 143793), (61, 143760), (62, 143757), (66, 143724), (68, 143706), (77, 143592), (79, 143583), (80, 143568), (83, 143538), (84, 143490), (85, 143475), (87, 143457), (91, 143415), (93, 143391), (94, 143382), (98, 143358), (103, 143301),

Gene: Phendrix_60 Start: 20398, Stop: 22092, Start Num: 3

Candidate Starts for Phendrix_60:

(Start: 3 @20398 has 2 MA's), (5, 20461), (11, 20530), (14, 20605), (15, 20614), (19, 20662), (20, 20677), (25, 20761), (26, 20764), (28, 20809), (31, 20845), (32, 20875), (36, 20929), (38, 20950), (40, 21040), (42, 21055), (43, 21061), (50, 21229), (53, 21259), (60, 21325), (65, 21388), (69, 21427), (71, 21445), (74, 21469), (77, 21523), (78, 21526), (79, 21532), (81, 21559), (86, 21649), (88, 21664), (92, 21706), (95, 21736), (99, 21763), (101, 21790),

Gene: Racecar_209 Start: 144651, Stop: 143206, Start Num: 4

Candidate Starts for Racecar_209:

(Start: 4 @144651 has 2 MA's), (7, 144630), (20, 144423), (22, 144381), (23, 144360), (24, 144354), (25, 144339), (26, 144336), (34, 144186), (41, 144048), (42, 144036), (48, 143889), (51, 143850), (55, 143808), (58, 143793), (59, 143787), (60, 143775), (61, 143742), (62, 143739), (66, 143706), (68, 143688), (77, 143574), (79, 143565), (80, 143550), (83, 143520), (84, 143472), (85, 143457), (87, 143439), (91, 143397), (93, 143373), (94, 143364), (98, 143340), (103, 143283),

Gene: SJReid_214 Start: 138275, Stop: 136830, Start Num: 4

Candidate Starts for SJReid_214:

(Start: 4 @138275 has 2 MA's), (17, 138080), (22, 138005), (23, 137984), (25, 137963), (37, 137789), (40, 137687), (41, 137684), (42, 137672), (47, 137522), (48, 137519), (51, 137480), (61, 137372), (64, 137360), (66, 137336), (67, 137321), (76, 137231), (79, 137195), (80, 137180), (83, 137150), (84, 137102), (87, 137069), (93, 137003), (94, 136994), (102, 136919), (104, 136904), (106, 136871),

Gene: Sixama_62 Start: 23138, Stop: 24844, Start Num: 1

Candidate Starts for Sixama_62:

(Start: 1 @23138 has 5 MA's), (5, 23231), (11, 23300), (13, 23348), (20, 23447), (31, 23615), (35, 23684), (38, 23720), (40, 23810), (43, 23831), (51, 24011), (52, 24023), (54, 24038), (56, 24062), (61, 24128), (70, 24200), (73, 24230), (74, 24239), (77, 24293), (79, 24302), (81, 24329), (92, 24476), (93, 24494), (97, 24524), (108, 24719), (110, 24785),

Gene: Talia1610_209 Start: 144680, Stop: 143235, Start Num: 4

Candidate Starts for Talia1610_209:

(Start: 4 @144680 has 2 MA's), (7, 144659), (20, 144452), (22, 144410), (23, 144389), (24, 144383), (25, 144368), (34, 144215), (41, 144077), (42, 144065), (48, 143918), (51, 143879), (55, 143837), (58, 143822), (59, 143816), (60, 143804), (61, 143771), (62, 143768), (66, 143735), (68, 143717), (77, 143603), (79, 143594), (80, 143579), (83, 143549), (84, 143501), (85, 143486), (87, 143468), (91, 143426), (93, 143402), (94, 143393), (98, 143369), (103, 143312),