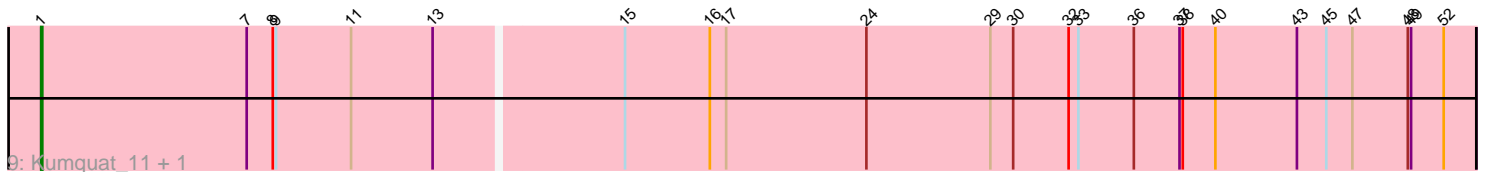
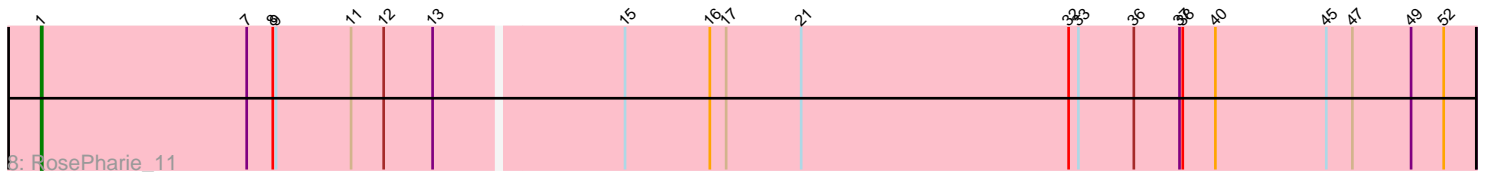
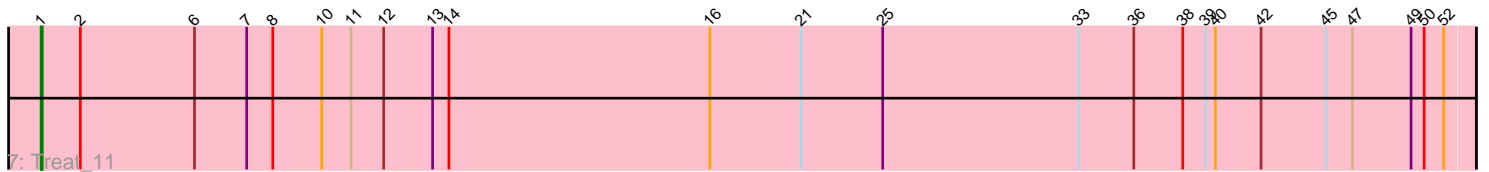
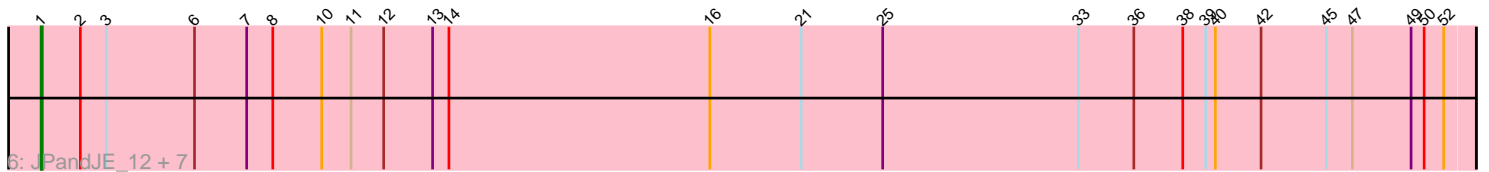
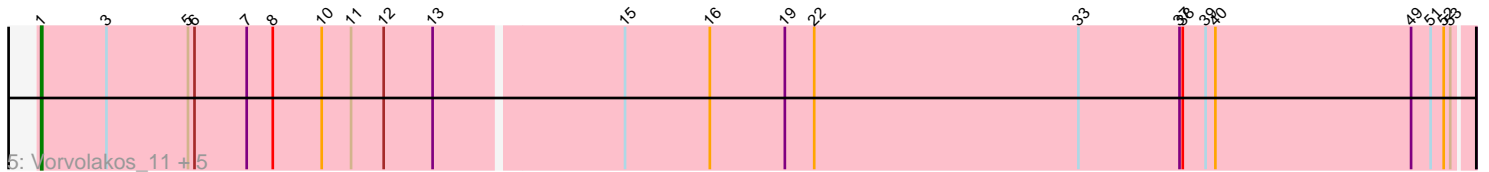
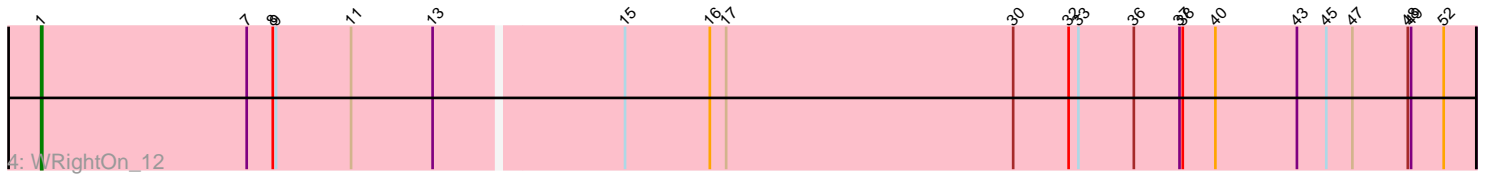
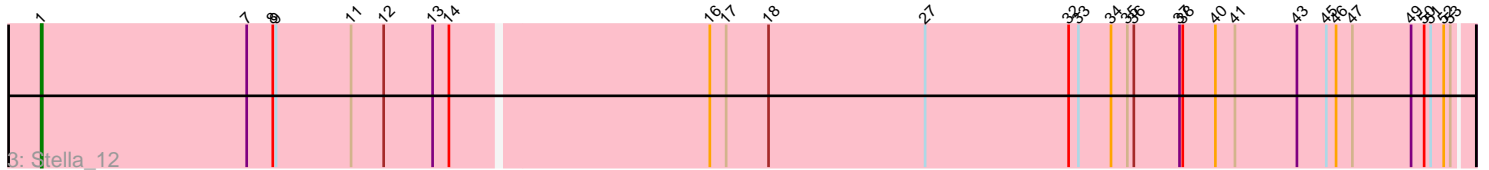
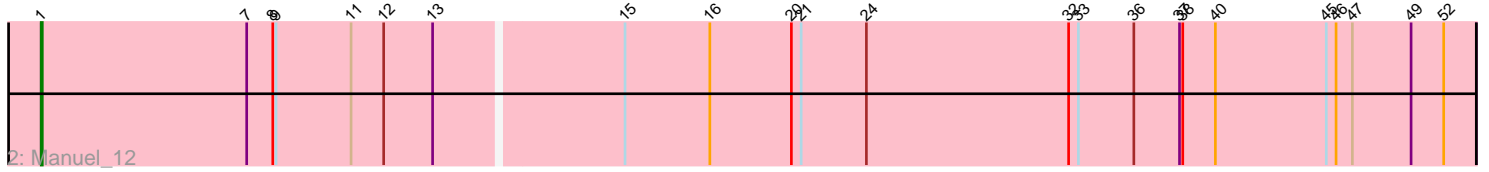
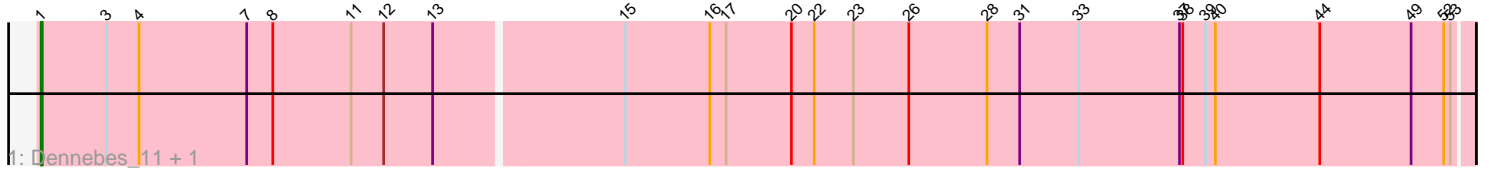


Pham 86559



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 86559 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86559 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Dennebes_11, Rideau_12
- Track 2 : Manuel_12
- Track 3 : Stella_12
- Track 4 : WRightOn_12
- Track 5 : Vorvolakos_11, Gremlin23_11, FlowerPower_11, Fabian_11, RetrieverFever_11, Geostin_11
- Track 6 : JPandJE_12, Percastrophe_11, ZooBear_11, HaugeAnator_11, Romero_11, Olicious_11, Immanuel3_11, ToriToki_11
- Track 7 : Treat_11
- Track 8 : RosePharie_11
- Track 9 : Kumquat_11, Zeigle_11

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 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes_11, Fabian_11, FlowerPower_11, Geostin_11, Gremlin23_11, HaugeAnator_11, Immanuel3_11, JPandJE_12, Kumquat_11, Manuel_12, Olicious_11, Percastrophe_11, RetrieverFever_11, Rideau_12, Romero_11, RosePharie_11, Stella_12, ToriToki_11, Treat_11, Vorvolakos_11, WRightOn_12, Zeigle_11, ZooBear_11,

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 23 of 23 (100.0%) of genes in pham

- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dennebes_11 (BF), Fabian_11 (BF), FlowerPower_11 (BF), Geostin_11 (BF), Gremlin23_11 (BF), HaugeAnator_11 (BF), Immanuel3_11 (BF), JPandJE_12 (BF), Kumquat_11 (BF), Manuel_12 (BF), Olicious_11 (BF), Percastrophe_11 (BF), RetrieverFever_11 (BF), Rideau_12 (BF), Romero_11 (BF), RosePharie_11 (BF), Stella_12 (BF), ToriToki_11 (BF), Treat_11 (BF), Vorvolakos_11 (BF), WRightOn_12 (BF), Zeigle_11 (BF), ZooBear_11 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 1 was manually annotated 21 times for cluster BF.

Gene Information:

Gene: Dennebes_11 Start: 12331, Stop: 13632, Start Num: 1

Candidate Starts for Dennebes_11:

(Start: 1 @12331 has 21 MA's), (3, 12391), (4, 12421), (7, 12520), (8, 12544), (11, 12616), (12, 12646), (13, 12691), (15, 12856), (16, 12934), (17, 12949), (20, 13009), (22, 13030), (23, 13066), (26, 13117), (28, 13189), (31, 13219), (33, 13273), (37, 13366), (38, 13369), (39, 13390), (40, 13399), (44, 13495), (49, 13579), (52, 13609), (53, 13615),

Gene: Fabian_11 Start: 12173, Stop: 13474, Start Num: 1

Candidate Starts for Fabian_11:

(Start: 1 @12173 has 21 MA's), (3, 12233), (5, 12308), (6, 12314), (7, 12362), (8, 12386), (10, 12431), (11, 12458), (12, 12488), (13, 12533), (15, 12698), (16, 12776), (19, 12845), (22, 12872), (33, 13115), (37, 13208), (38, 13211), (39, 13232), (40, 13241), (49, 13421), (51, 13439), (52, 13451), (53, 13457),

Gene: FlowerPower_11 Start: 12173, Stop: 13474, Start Num: 1

Candidate Starts for FlowerPower_11:

(Start: 1 @12173 has 21 MA's), (3, 12233), (5, 12308), (6, 12314), (7, 12362), (8, 12386), (10, 12431), (11, 12458), (12, 12488), (13, 12533), (15, 12698), (16, 12776), (19, 12845), (22, 12872), (33, 13115), (37, 13208), (38, 13211), (39, 13232), (40, 13241), (49, 13421), (51, 13439), (52, 13451), (53, 13457),

Gene: Geostin_11 Start: 12173, Stop: 13474, Start Num: 1

Candidate Starts for Geostin_11:

(Start: 1 @12173 has 21 MA's), (3, 12233), (5, 12308), (6, 12314), (7, 12362), (8, 12386), (10, 12431), (11, 12458), (12, 12488), (13, 12533), (15, 12698), (16, 12776), (19, 12845), (22, 12872), (33, 13115), (37, 13208), (38, 13211), (39, 13232), (40, 13241), (49, 13421), (51, 13439), (52, 13451), (53, 13457),

Gene: Gremlin23_11 Start: 12173, Stop: 13474, Start Num: 1

Candidate Starts for Gremlin23_11:

(Start: 1 @12173 has 21 MA's), (3, 12233), (5, 12308), (6, 12314), (7, 12362), (8, 12386), (10, 12431), (11, 12458), (12, 12488), (13, 12533), (15, 12698), (16, 12776), (19, 12845), (22, 12872), (33, 13115), (37, 13208), (38, 13211), (39, 13232), (40, 13241), (49, 13421), (51, 13439), (52, 13451), (53, 13457),

Gene: HaugeAnator_11 Start: 12247, Stop: 13563, Start Num: 1

Candidate Starts for HaugeAnator_11:

(Start: 1 @12247 has 21 MA's), (2, 12283), (3, 12307), (6, 12388), (7, 12436), (8, 12460), (10, 12505), (11, 12532), (12, 12562), (13, 12607), (14, 12622), (16, 12862), (21, 12946), (25, 13021), (33, 13201), (36, 13252), (38, 13297), (39, 13318), (40, 13327), (42, 13369), (45, 13429), (47, 13453), (49, 13507), (50, 13519), (52, 13537),

Gene: Immanuel3_11 Start: 12251, Stop: 13567, Start Num: 1

Candidate Starts for Immanuel3_11:

(Start: 1 @12251 has 21 MA's), (2, 12287), (3, 12311), (6, 12392), (7, 12440), (8, 12464), (10, 12509), (11, 12536), (12, 12566), (13, 12611), (14, 12626), (16, 12866), (21, 12950), (25, 13025), (33, 13205), (36, 13256), (38, 13301), (39, 13322), (40, 13331), (42, 13373), (45, 13433), (47, 13457), (49, 13511), (50, 13523), (52, 13541),

Gene: JPandJE_12 Start: 12607, Stop: 13923, Start Num: 1

Candidate Starts for JPandJE_12:

(Start: 1 @12607 has 21 MA's), (2, 12643), (3, 12667), (6, 12748), (7, 12796), (8, 12820), (10, 12865), (11, 12892), (12, 12922), (13, 12967), (14, 12982), (16, 13222), (21, 13306), (25, 13381), (33, 13561), (36, 13612), (38, 13657), (39, 13678), (40, 13687), (42, 13729), (45, 13789), (47, 13813), (49, 13867), (50, 13879), (52, 13897),

Gene: Kumquat_11 Start: 12181, Stop: 13488, Start Num: 1

Candidate Starts for Kumquat_11:

(Start: 1 @12181 has 21 MA's), (7, 12370), (8, 12394), (9, 12397), (11, 12466), (13, 12541), (15, 12706), (16, 12784), (17, 12799), (24, 12928), (29, 13042), (30, 13063), (32, 13114), (33, 13123), (36, 13174), (37, 13216), (38, 13219), (40, 13249), (43, 13324), (45, 13351), (47, 13375), (48, 13426), (49, 13429), (52, 13459),

Gene: Manuel_12 Start: 12627, Stop: 13934, Start Num: 1

Candidate Starts for Manuel_12:

(Start: 1 @12627 has 21 MA's), (7, 12816), (8, 12840), (9, 12843), (11, 12912), (12, 12942), (13, 12987), (15, 13152), (16, 13230), (20, 13305), (21, 13314), (24, 13374), (32, 13560), (33, 13569), (36, 13620), (37, 13662), (38, 13665), (40, 13695), (45, 13797), (46, 13806), (47, 13821), (49, 13875), (52, 13905),

Gene: Olicious_11 Start: 12247, Stop: 13563, Start Num: 1

Candidate Starts for Olicious_11:

(Start: 1 @12247 has 21 MA's), (2, 12283), (3, 12307), (6, 12388), (7, 12436), (8, 12460), (10, 12505), (11, 12532), (12, 12562), (13, 12607), (14, 12622), (16, 12862), (21, 12946), (25, 13021), (33, 13201), (36, 13252), (38, 13297), (39, 13318), (40, 13327), (42, 13369), (45, 13429), (47, 13453), (49, 13507), (50, 13519), (52, 13537),

Gene: Percastrophe_11 Start: 12240, Stop: 13556, Start Num: 1

Candidate Starts for Percastrophe_11:

(Start: 1 @12240 has 21 MA's), (2, 12276), (3, 12300), (6, 12381), (7, 12429), (8, 12453), (10, 12498), (11, 12525), (12, 12555), (13, 12600), (14, 12615), (16, 12855), (21, 12939), (25, 13014), (33, 13194), (36, 13245), (38, 13290), (39, 13311), (40, 13320), (42, 13362), (45, 13422), (47, 13446), (49, 13500), (50, 13512), (52, 13530),

Gene: RetrieverFever_11 Start: 12173, Stop: 13474, Start Num: 1

Candidate Starts for RetrieverFever_11:

(Start: 1 @12173 has 21 MA's), (3, 12233), (5, 12308), (6, 12314), (7, 12362), (8, 12386), (10, 12431), (11, 12458), (12, 12488), (13, 12533), (15, 12698), (16, 12776), (19, 12845), (22, 12872), (33, 13115), (37, 13208), (38, 13211), (39, 13232), (40, 13241), (49, 13421), (51, 13439), (52, 13451), (53, 13457),

Gene: Rideau_12 Start: 12331, Stop: 13632, Start Num: 1

Candidate Starts for Rideau_12:

(Start: 1 @12331 has 21 MA's), (3, 12391), (4, 12421), (7, 12520), (8, 12544), (11, 12616), (12, 12646), (13, 12691), (15, 12856), (16, 12934), (17, 12949), (20, 13009), (22, 13030), (23, 13066), (26, 13117), (28, 13189), (31, 13219), (33, 13273), (37, 13366), (38, 13369), (39, 13390), (40, 13399), (44, 13495), (49, 13579), (52, 13609), (53, 13615),

Gene: Romero_11 Start: 12240, Stop: 13556, Start Num: 1

Candidate Starts for Romero_11:

(Start: 1 @12240 has 21 MA's), (2, 12276), (3, 12300), (6, 12381), (7, 12429), (8, 12453), (10, 12498), (11, 12525), (12, 12555), (13, 12600), (14, 12615), (16, 12855), (21, 12939), (25, 13014), (33, 13194), (36, 13245), (38, 13290), (39, 13311), (40, 13320), (42, 13362), (45, 13422), (47, 13446), (49, 13500), (50, 13512), (52, 13530),

Gene: RosePharie_11 Start: 12342, Stop: 13649, Start Num: 1

Candidate Starts for RosePharie_11:

(Start: 1 @12342 has 21 MA's), (7, 12531), (8, 12555), (9, 12558), (11, 12627), (12, 12657), (13, 12702), (15, 12867), (16, 12945), (17, 12960), (21, 13029), (32, 13275), (33, 13284), (36, 13335), (37, 13377), (38, 13380), (40, 13410), (45, 13512), (47, 13536), (49, 13590), (52, 13620),

Gene: Stella_12 Start: 12144, Stop: 13445, Start Num: 1

Candidate Starts for Stella_12:

(Start: 1 @12144 has 21 MA's), (7, 12333), (8, 12357), (9, 12360), (11, 12429), (12, 12459), (13, 12504), (14, 12519), (16, 12747), (17, 12762), (18, 12801), (27, 12945), (32, 13077), (33, 13086), (34, 13116), (35, 13131), (36, 13137), (37, 13179), (38, 13182), (40, 13212), (41, 13230), (43, 13287), (45, 13314), (46, 13323), (47, 13338), (49, 13392), (50, 13404), (51, 13410), (52, 13422), (53, 13428),

Gene: ToriToki_11 Start: 12240, Stop: 13556, Start Num: 1

Candidate Starts for ToriToki_11:

(Start: 1 @12240 has 21 MA's), (2, 12276), (3, 12300), (6, 12381), (7, 12429), (8, 12453), (10, 12498), (11, 12525), (12, 12555), (13, 12600), (14, 12615), (16, 12855), (21, 12939), (25, 13014), (33, 13194), (36, 13245), (38, 13290), (39, 13311), (40, 13320), (42, 13362), (45, 13422), (47, 13446), (49, 13500), (50, 13512), (52, 13530),

Gene: Treat_11 Start: 12240, Stop: 13556, Start Num: 1

Candidate Starts for Treat_11:

(Start: 1 @12240 has 21 MA's), (2, 12276), (6, 12381), (7, 12429), (8, 12453), (10, 12498), (11, 12525), (12, 12555), (13, 12600), (14, 12615), (16, 12855), (21, 12939), (25, 13014), (33, 13194), (36, 13245), (38, 13290), (39, 13311), (40, 13320), (42, 13362), (45, 13422), (47, 13446), (49, 13500), (50, 13512), (52, 13530),

Gene: Vorvolakos_11 Start: 12172, Stop: 13473, Start Num: 1

Candidate Starts for Vorvolakos_11:

(Start: 1 @12172 has 21 MA's), (3, 12232), (5, 12307), (6, 12313), (7, 12361), (8, 12385), (10, 12430), (11, 12457), (12, 12487), (13, 12532), (15, 12697), (16, 12775), (19, 12844), (22, 12871), (33, 13114), (37, 13207), (38, 13210), (39, 13231), (40, 13240), (49, 13420), (51, 13438), (52, 13450), (53, 13456),

Gene: WRightOn_12 Start: 12562, Stop: 13869, Start Num: 1

Candidate Starts for WRightOn_12:

(Start: 1 @12562 has 21 MA's), (7, 12751), (8, 12775), (9, 12778), (11, 12847), (13, 12922), (15, 13087), (16, 13165), (17, 13180), (30, 13444), (32, 13495), (33, 13504), (36, 13555), (37, 13597), (38, 13600), (40, 13630), (43, 13705), (45, 13732), (47, 13756), (48, 13807), (49, 13810), (52, 13840),

Gene: Zeigle_11 Start: 12181, Stop: 13488, Start Num: 1

Candidate Starts for Zeigle_11:

(Start: 1 @12181 has 21 MA's), (7, 12370), (8, 12394), (9, 12397), (11, 12466), (13, 12541), (15, 12706), (16, 12784), (17, 12799), (24, 12928), (29, 13042), (30, 13063), (32, 13114), (33, 13123), (36, 13174), (37, 13216), (38, 13219), (40, 13249), (43, 13324), (45, 13351), (47, 13375), (48, 13426), (49, 13429), (52, 13459),

Gene: ZooBear_11 Start: 12247, Stop: 13563, Start Num: 1

Candidate Starts for ZooBear_11:

(Start: 1 @12247 has 21 MA's), (2, 12283), (3, 12307), (6, 12388), (7, 12436), (8, 12460), (10, 12505), (11, 12532), (12, 12562), (13, 12607), (14, 12622), (16, 12862), (21, 12946), (25, 13021), (33, 13201), (36, 13252), (38, 13297), (39, 13318), (40, 13327), (42, 13369), (45, 13429), (47, 13453), (49, 13507), (50, 13519), (52, 13537),