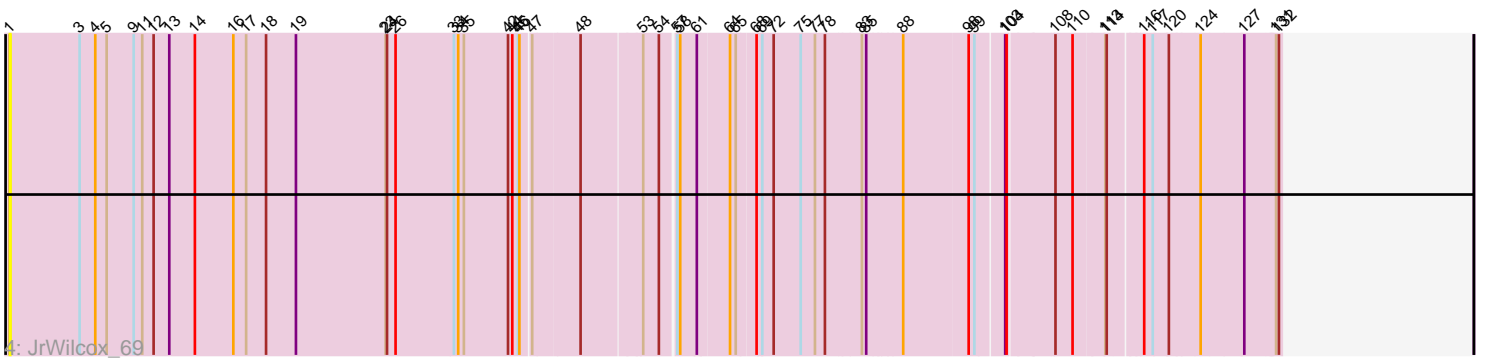
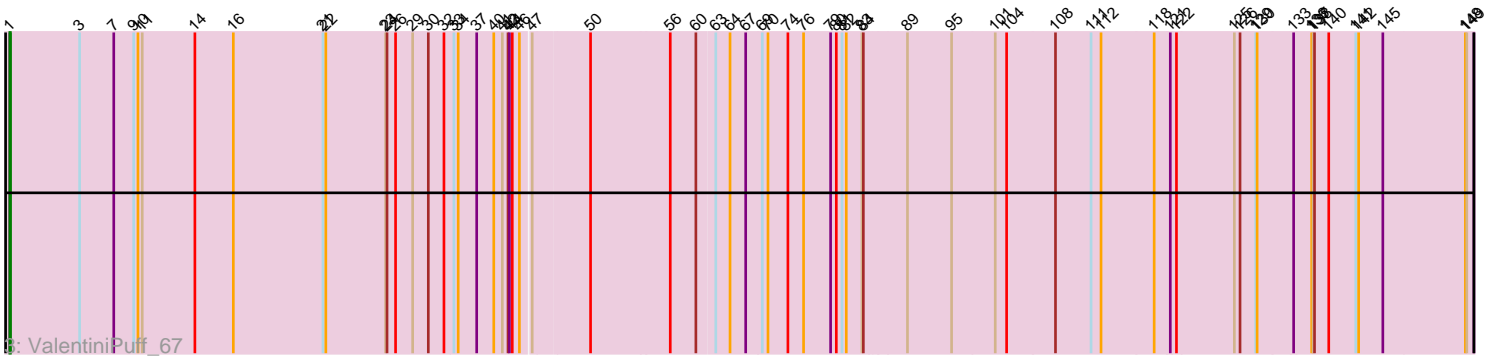
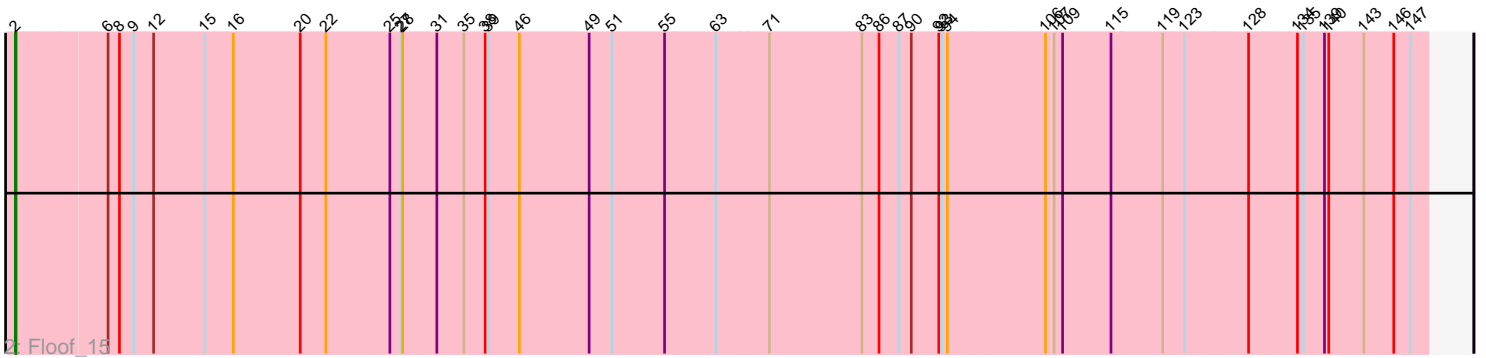
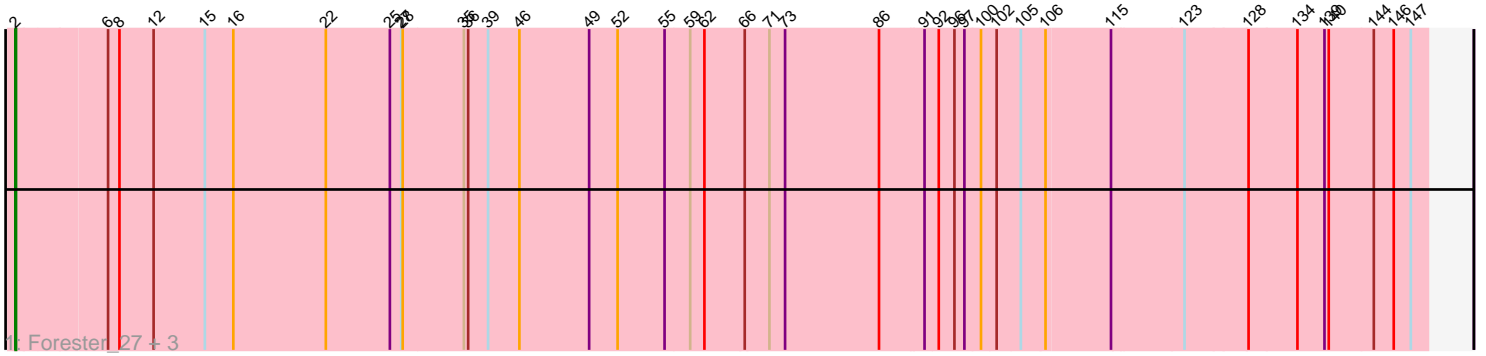


Pham 297312



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 297312 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297312 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Forester_27, Percival_15, SuperHands_16, Gretchen_15
- Track 2 : Floof_15
- Track 3 : ValentiniPuff_67
- Track 4 : JrWilcox_69

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

The start number called the most often in the published annotations is 2, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Floof_15, Forester_27, Gretchen_15, Percival_15, SuperHands_16,

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

-

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

- JrWilcox_69, ValentiniPuff_67,

Summary by start number:

Start 1:

- Found in 2 of 7 (28.6%) 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: JrWilcox_69 (GL), ValentiniPuff_67 (GL),

Start 2:

- Found in 5 of 7 (71.4%) 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: Floof_15 (EH), Forester_27 (EH), Gretchen_15 (EH), Percival_15 (EH), SuperHands_16 (EH),

Summary by clusters:

There are 2 clusters represented in this pham: GL, EH,

Info for manual annotations of cluster EH:

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

Info for manual annotations of cluster GL:

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

Gene Information:

Gene: Floof_15 Start: 9530, Stop: 12451, Start Num: 2

Candidate Starts for Floof_15:

(Start: 2 @9530 has 3 MA's), (6, 9713), (8, 9737), (9, 9767), (12, 9809), (15, 9917), (16, 9977), (20, 10118), (22, 10172), (25, 10307), (27, 10331), (28, 10334), (31, 10403), (35, 10460), (38, 10505), (39, 10511), (46, 10577), (49, 10724), (51, 10772), (55, 10883), (63, 10988), (71, 11099), (83, 11294), (86, 11330), (87, 11372), (90, 11396), (92, 11450), (93, 11456), (94, 11468), (106, 11666), (107, 11678), (109, 11696), (115, 11798), (119, 11900), (123, 11945), (128, 12077), (134, 12179), (135, 12191), (139, 12236), (140, 12245), (143, 12317), (146, 12380), (147, 12416),

Gene: Forester_27 Start: 11062, Stop: 13983, Start Num: 2

Candidate Starts for Forester_27:

(Start: 2 @11062 has 3 MA's), (6, 11245), (8, 11269), (12, 11341), (15, 11449), (16, 11509), (22, 11704), (25, 11839), (27, 11863), (28, 11866), (35, 11992), (36, 12001), (39, 12043), (46, 12109), (49, 12256), (52, 12316), (55, 12415), (59, 12466), (62, 12496), (66, 12580), (71, 12631), (73, 12664), (86, 12862), (91, 12955), (92, 12982), (96, 13015), (97, 13036), (100, 13069), (102, 13099), (105, 13147), (106, 13198), (115, 13330), (123, 13477), (128, 13609), (134, 13711), (139, 13768), (140, 13777), (144, 13870), (146, 13912), (147, 13948),

Gene: Gretchen_15 Start: 11056, Stop: 13977, Start Num: 2

Candidate Starts for Gretchen_15:

(Start: 2 @11056 has 3 MA's), (6, 11239), (8, 11263), (12, 11335), (15, 11443), (16, 11503), (22, 11698), (25, 11833), (27, 11857), (28, 11860), (35, 11986), (36, 11995), (39, 12037), (46, 12103), (49, 12250), (52, 12310), (55, 12409), (59, 12460), (62, 12490), (66, 12574), (71, 12625), (73, 12658), (86, 12856), (91, 12949), (92, 12976), (96, 13009), (97, 13030), (100, 13063), (102, 13093), (105, 13141), (106, 13192), (115, 13324), (123, 13471), (128, 13603), (134, 13705), (139, 13762), (140, 13771), (144, 13864), (146, 13906), (147, 13942),

Gene: JrWilcox_69 Start: 33279, Stop: 35780, Start Num: 1

Candidate Starts for JrWilcox_69:

(Start: 1 @33279 has 1 MA's), (3, 33426), (4, 33459), (5, 33483), (9, 33540), (11, 33558), (12, 33582), (13, 33615), (14, 33669), (16, 33750), (17, 33777), (18, 33819), (19, 33882), (23, 34071), (24, 34074), (26, 34092), (33, 34212), (34, 34221), (35, 34233), (42, 34326), (44, 34335), (45, 34347), (46, 34350), (47, 34368), (48, 34458), (53, 34578), (54, 34611), (57, 34638), (58, 34644), (61, 34677), (64, 34740), (65, 34752), (68, 34788), (69, 34797), (72, 34821), (75, 34878), (77, 34908), (78, 34929), (83, 34998), (85, 35007), (88, 35073), (98, 35205), (99, 35217), (103, 35271), (104, 35274), (108, 35358), (110, 35394), (113, 35454), (114, 35457), (116, 35517), (117, 35535), (120, 35565), (124, 35625), (127, 35709), (131, 35769), (132, 35775),

Gene: Percival_15 Start: 10890, Stop: 13811, Start Num: 2

Candidate Starts for Percival_15:

(Start: 2 @10890 has 3 MA's), (6, 11073), (8, 11097), (12, 11169), (15, 11277), (16, 11337), (22, 11532), (25, 11667), (27, 11691), (28, 11694), (35, 11820), (36, 11829), (39, 11871), (46, 11937), (49, 12084), (52, 12144), (55, 12243), (59, 12294), (62, 12324), (66, 12408), (71, 12459), (73, 12492), (86, 12690), (91, 12783), (92, 12810), (96, 12843), (97, 12864), (100, 12897), (102, 12927), (105, 12975), (106, 13026), (115, 13158), (123, 13305), (128, 13437), (134, 13539), (139, 13596), (140, 13605), (144, 13698), (146, 13740), (147, 13776),

Gene: SuperHands_16 Start: 11062, Stop: 13983, Start Num: 2

Candidate Starts for SuperHands_16:

(Start: 2 @11062 has 3 MA's), (6, 11245), (8, 11269), (12, 11341), (15, 11449), (16, 11509), (22, 11704), (25, 11839), (27, 11863), (28, 11866), (35, 11992), (36, 12001), (39, 12043), (46, 12109), (49, 12256), (52, 12316), (55, 12415), (59, 12466), (62, 12496), (66, 12580), (71, 12631), (73, 12664), (86, 12862), (91, 12955), (92, 12982), (96, 13015), (97, 13036), (100, 13069), (102, 13099), (105, 13147), (106, 13198), (115, 13330), (123, 13477), (128, 13609), (134, 13711), (139, 13768), (140, 13777), (144, 13870), (146, 13912), (147, 13948),

Gene: ValentiniPuff_67 Start: 33630, Stop: 36656, Start Num: 1

Candidate Starts for ValentiniPuff_67:

(Start: 1 @33630 has 1 MA's), (3, 33777), (7, 33849), (9, 33891), (10, 33900), (11, 33909), (14, 34020), (16, 34101), (21, 34290), (22, 34296), (23, 34422), (24, 34425), (26, 34443), (29, 34479), (30, 34512), (32, 34545), (33, 34563), (34, 34572), (37, 34611), (40, 34647), (41, 34665), (42, 34677), (43, 34680), (44, 34686), (46, 34701), (47, 34719), (50, 34830), (56, 34995), (60, 35049), (63, 35085), (64, 35115), (67, 35148), (69, 35181), (70, 35193), (74, 35235), (76, 35268), (79, 35325), (80, 35337), (81, 35349), (82, 35358), (83, 35391), (84, 35394), (89, 35478), (95, 35571), (101, 35661), (104, 35685), (108, 35787), (111, 35862), (112, 35883), (118, 35994), (121, 36027), (122, 36039), (125, 36159), (126, 36171), (129, 36204), (130, 36207), (133, 36282), (136, 36318), (137, 36321), (138, 36324), (140, 36354), (141, 36411), (142, 36417), (145, 36468), (148, 36639), (149, 36642),