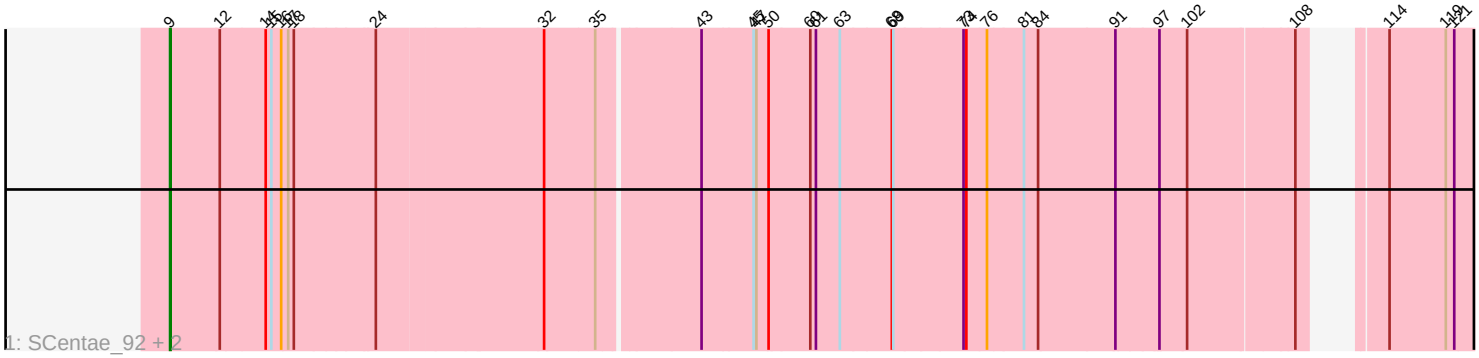
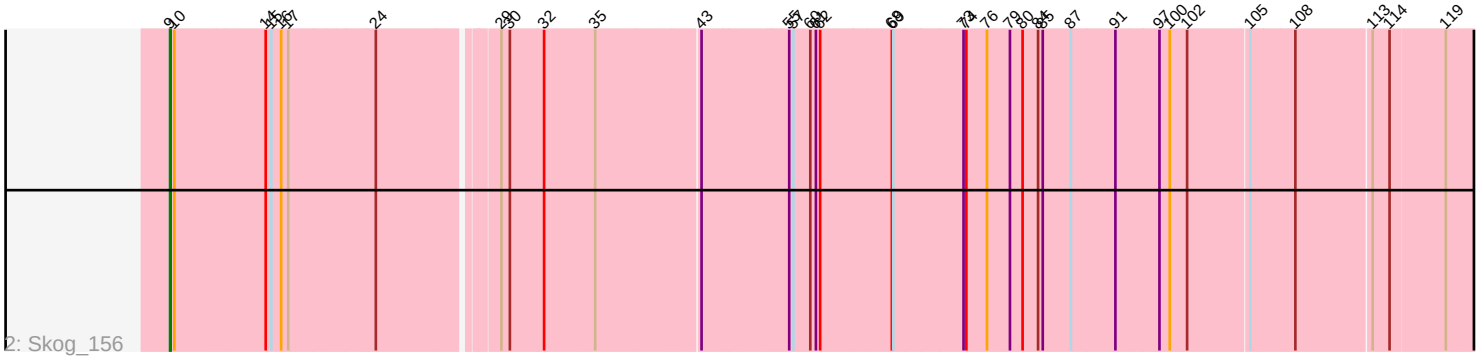
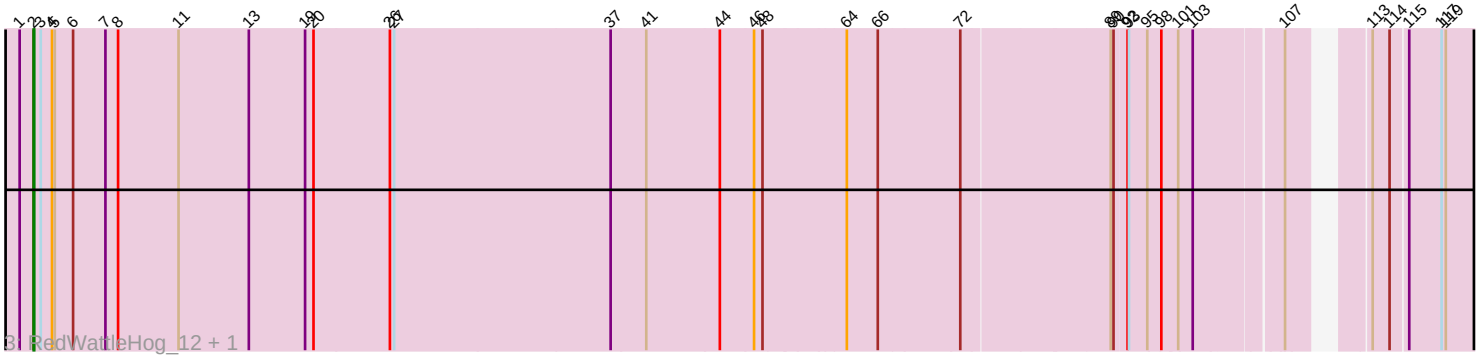
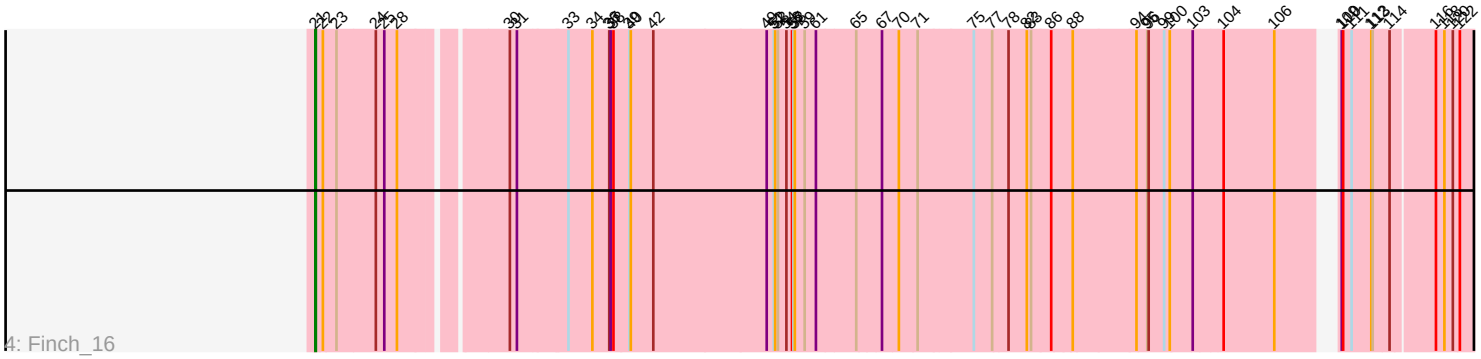
Pham 335651









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 335651 Report

This analysis was run 11/14/26 on database version 672.

Pham number 335651 has 7 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SCentae_92, CherryTomatoes_93, Pupper_93
• Track 2 : Skog_156
• Track 3 : RedWattleHog_12, Stormageddon_12
• Track 4 : Finch_16

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

The start number called the most often in the published annotations is 9, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CherryTomatoes_93, Pupper_93, SCentae_92, Skog_156,

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

Genes that do not have the "Most Annotated" start:
• Finch_16, RedWattleHog_12, Stormageddon_12,

Summary by start number:

Start 2:
• Found in 2 of 7 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_12 (DX), Stormageddon_12 (DX),

Start 9:
• Found in 4 of 7 (57.1%) of genes in pham
• Manual Annotations of this start: 4 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_93 (DO), Pupper_93 (DO), SCentae_92 (DO), Skog_156 (DO),

Start 21:
• Found in 1 of 7 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_16 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: DO, singleton, DX,

Info for manual annotations of cluster DO:
•Start number 9 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DX:
•Start number 2 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: CherryTomatoes_93 Start: 41101, Stop: 43695, Start Num: 9
Candidate Starts for CherryTomatoes_93:
(Start: 9 @41101 has 4 MA's), (12, 41206), (14, 41299), (15, 41311), (16, 41332), (17, 41344), (18, 41356), (24, 41524), (32, 41866), (35, 41971), (43, 42172), (45, 42280), (47, 42286), (50, 42310), (60, 42397), (61, 42409), (63, 42460), (68, 42568), (69, 42571), (73, 42718), (74, 42724), (76, 42766), (81, 42841), (84, 42871), (91, 43033), (97, 43120), (102, 43177), (108, 43393), (114, 43480), (119, 43600), (121, 43618),

Gene: Finch_16 Start: 13152, Stop: 15461, Start Num: 21
Candidate Starts for Finch_16:
(Start: 21 @13152 has 1 MA's), (22, 13167), (23, 13194), (24, 13275), (25, 13293), (28, 13320), (30, 13518), (31, 13533), (33, 13635), (34, 13686), (36, 13722), (37, 13725), (38, 13731), (39, 13764), (40, 13767), (42, 13815), (49, 14055), (51, 14070), (52, 14073), (53, 14079), (54, 14097), (56, 14109), (57, 14112), (58, 14115), (59, 14136), (61, 14160), (65, 14241), (67, 14289), (70, 14322), (71, 14361), (75, 14475), (77, 14514), (78, 14544), (82, 14583), (83, 14592), (86, 14634), (88, 14676), (94, 14808), (95, 14829), (96, 14832), (99, 14865), (100, 14877), (103, 14922), (104, 14979), (106, 15087), (109, 15180), (110, 15183), (111, 15201), (112, 15243), (113, 15246), (114, 15279), (116, 15366), (118, 15384), (120, 15402), (122, 15414),

Gene: Pupper_93 Start: 41228, Stop: 43822, Start Num: 9
Candidate Starts for Pupper_93:
(Start: 9 @41228 has 4 MA's), (12, 41333), (14, 41426), (15, 41438), (16, 41459), (17, 41471), (18, 41483), (24, 41651), (32, 41993), (35, 42098), (43, 42299), (45, 42407), (47, 42413), (50, 42437), (60, 42524), (61, 42536), (63, 42587), (68, 42695), (69, 42698), (73, 42845), (74, 42851), (76, 42893), (81, 42968), (84, 42998), (91, 43160), (97, 43247), (102, 43304), (108, 43520), (114, 43607), (119, 43727), (121, 43745),

Gene: RedWattleHog_12 Start: 12191, Stop: 15112, Start Num: 2
Candidate Starts for RedWattleHog_12:
(1, 12161), (Start: 2 @12191 has 2 MA's), (3, 12206), (4, 12230), (5, 12236), (6, 12275), (7, 12344), (8, 12371), (11, 12500), (13, 12650), (19, 12770), (20, 12788), (26, 12950), (27, 12959), (37, 13418), (41, 13493), (44, 13649), (46, 13721), (48, 13739), (64, 13907), (66, 13973), (72, 14144), (89, 14447), (90,

14453), (92, 14477), (93, 14480), (95, 14519), (98, 14546), (101, 14579), (103, 14609), (107, 14777), (113, 14888), (114, 14924), (115, 14957), (117, 15026), (119, 15035),

Gene: SCentae_92 Start: 41374, Stop: 43968, Start Num: 9
Candidate Starts for SCentae_92:
(Start: 9 @41374 has 4 MA's), (12, 41479), (14, 41572), (15, 41584), (16, 41605), (17, 41617), (18, 41629), (24, 41797), (32, 42139), (35, 42244), (43, 42445), (45, 42553), (47, 42559), (50, 42583), (60, 42670), (61, 42682), (63, 42733), (68, 42841), (69, 42844), (73, 42991), (74, 42997), (76, 43039), (81, 43114), (84, 43144), (91, 43306), (97, 43393), (102, 43450), (108, 43666), (114, 43753), (119, 43873), (121, 43891),

Gene: Skog_156 Start: 70846, Stop: 73512, Start Num: 9
Candidate Starts for Skog_156:
(Start: 9 @70846 has 4 MA's), (10, 70855), (14, 71047), (15, 71059), (16, 71080), (17, 71092), (24, 71269), (29, 71494), (30, 71512), (32, 71584), (35, 71683), (43, 71896), (55, 72073), (57, 72082), (60, 72118), (61, 72130), (62, 72139), (68, 72289), (69, 72292), (73, 72439), (74, 72445), (76, 72487), (79, 72532), (80, 72559), (84, 72592), (85, 72601), (87, 72661), (91, 72754), (97, 72841), (100, 72862), (102, 72898), (105, 73024), (108, 73114), (113, 73267), (114, 73303), (119, 73417),

Gene: Stormageddon_12 Start: 12188, Stop: 15109, Start Num: 2
Candidate Starts for Stormageddon_12:
(1, 12158), (Start: 2 @12188 has 2 MA's), (3, 12203), (4, 12227), (5, 12233), (6, 12272), (7, 12341), (8, 12368), (11, 12497), (13, 12647), (19, 12767), (20, 12785), (26, 12947), (27, 12956), (37, 13415), (41, 13490), (44, 13646), (46, 13718), (48, 13736), (64, 13904), (66, 13970), (72, 14141), (89, 14444), (90, 14450), (92, 14474), (93, 14477), (95, 14516), (98, 14543), (101, 14576), (103, 14606), (107, 14774), (113, 14885), (114, 14921), (115, 14954), (117, 15023), (119, 15032),