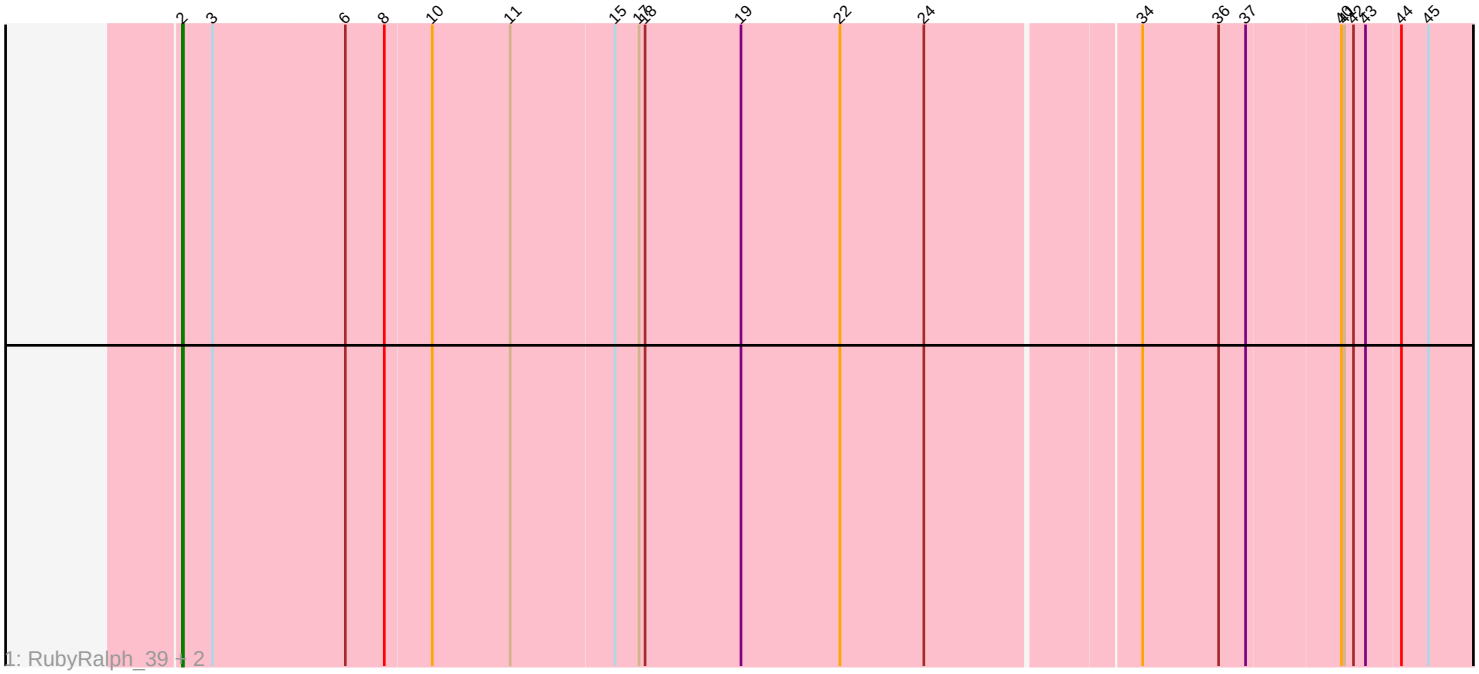
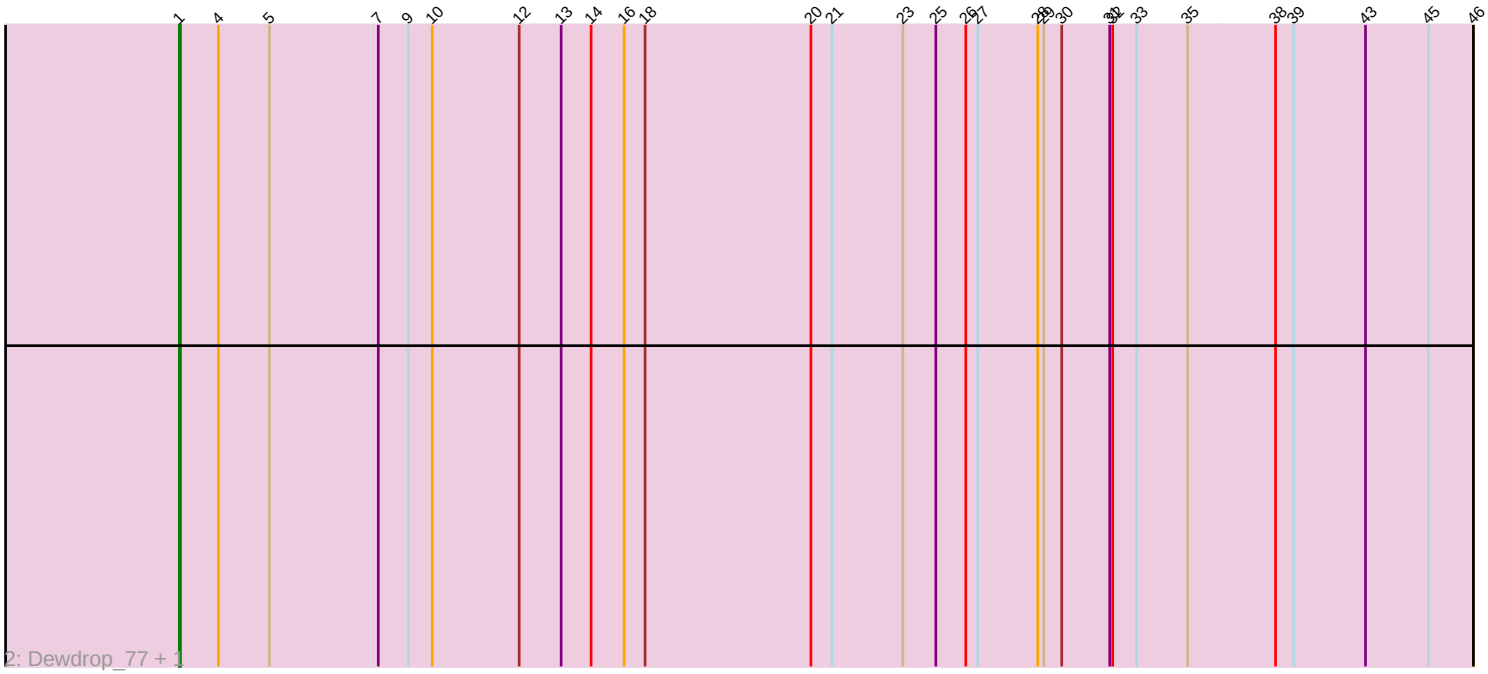
Zoomed Pham 297418





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 297418 Report

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

Pham number 297418 has 5 members, 0 are drafts.

Phages represented in each track:
• Track 1 : RubyRalph_39, Fransoyer_39, SadLad_41
• Track 2 : Dewdrop_77, Leaf_77

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 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fransoyer_39, RubyRalph_39, SadLad_41,

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

Genes that do not have the "Most Annotated" start:
• Dewdrop_77, Leaf_77,

Summary by start number:

Start 1:
• Found in 2 of 5 (40.0%) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dewdrop_77 (GC), Leaf_77 (GC),

Start 2:
• Found in 3 of 5 (60.0%) of genes in pham
• Manual Annotations of this start: 3 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_39 (EG), RubyRalph_39 (EG), SadLad_41 (EG),

Summary by clusters:

There are 2 clusters represented in this pham: EG, GC,

Info for manual annotations of cluster EG:
•Start number 2 was manually annotated 3 times for cluster EG.

Info for manual annotations of cluster GC:
•Start number 1 was manually annotated 2 times for cluster GC.

Gene Information:

Gene: Dewdrop_77 Start: 44558, Stop: 48556, Start Num: 1
Candidate Starts for Dewdrop_77:
(Start: 1 @44558 has 2 MA's), (4, 44597), (5, 44648), (7, 44753), (9, 44783), (10, 44807), (12, 44894), (13, 44936), (14, 44966), (16, 44999), (18, 45020), (20, 45185), (21, 45206), (23, 45275), (25, 45308), (26, 45338), (27, 45350), (28, 45410), (29, 45416), (30, 45434), (31, 45482), (32, 45485), (33, 45509), (35, 45560), (38, 45647), (39, 45665), (43, 45737), (45, 45800), (46, 45845), (47, 45866), (48, 45872), (49, 45899), (51, 45938), (53, 46049), (54, 46064), (61, 46271), (64, 46487), (65, 46523), (66, 46529), (68, 46544), (70, 46559), (71, 46562), (72, 46568), (75, 46610), (76, 46733), (77, 46775), (78, 46835), (79, 46856), (81, 46892), (85, 46940), (86, 46970), (88, 47012), (91, 47090), (92, 47099), (93, 47126), (95, 47138), (97, 47174), (99, 47222), (100, 47279), (101, 47321), (103, 47384), (105, 47411), (106, 47474), (107, 47501), (108, 47528), (109, 47537), (110, 47540), (112, 47579), (113, 47615), (115, 47678), (116, 47723), (117, 47753), (118, 47768), (119, 47849), (120, 47912), (121, 47984), (122, 48017), (123, 48122), (124, 48140), (125, 48161), (126, 48182), (127, 48272), (128, 48305), (129, 48320), (130, 48374), (131, 48401), (132, 48407), (133, 48470), (134, 48488), (135, 48542),

Gene: Fransoyer_39 Start: 25911, Stop: 28880, Start Num: 2
Candidate Starts for Fransoyer_39:
(Start: 2 @25911 has 3 MA's), (3, 25941), (6, 26073), (8, 26112), (10, 26157), (11, 26235), (15, 26337), (17, 26361), (18, 26367), (19, 26463), (22, 26559), (24, 26643), (34, 26841), (36, 26916), (37, 26943), (40, 27033), (41, 27036), (42, 27045), (43, 27057), (44, 27090), (45, 27117), (47, 27183), (48, 27189), (50, 27234), (52, 27255), (55, 27384), (56, 27429), (57, 27471), (58, 27486), (59, 27495), (60, 27528), (62, 27660), (63, 27720), (67, 27816), (69, 27834), (73, 27858), (74, 27861), (77, 28047), (78, 28107), (79, 28128), (80, 28143), (82, 28176), (83, 28194), (84, 28209), (87, 28263), (88, 28293), (89, 28353), (90, 28356), (94, 28413), (96, 28443), (98, 28461), (100, 28545), (102, 28602), (104, 28656), (111, 28788), (113, 28836), (114, 28839),

Gene: Leaf_77 Start: 44558, Stop: 48556, Start Num: 1
Candidate Starts for Leaf_77:
(Start: 1 @44558 has 2 MA's), (4, 44597), (5, 44648), (7, 44753), (9, 44783), (10, 44807), (12, 44894), (13, 44936), (14, 44966), (16, 44999), (18, 45020), (20, 45185), (21, 45206), (23, 45275), (25, 45308), (26, 45338), (27, 45350), (28, 45410), (29, 45416), (30, 45434), (31, 45482), (32, 45485), (33, 45509), (35, 45560), (38, 45647), (39, 45665), (43, 45737), (45, 45800), (46, 45845), (47, 45866), (48, 45872), (49, 45899), (51, 45938), (53, 46049), (54, 46064), (61, 46271), (64, 46487), (65, 46523), (66, 46529), (68, 46544), (70, 46559), (71, 46562), (72, 46568), (75, 46610), (76, 46733), (77, 46775), (78, 46835), (79, 46856), (81, 46892), (85, 46940), (86, 46970), (88, 47012), (91, 47090), (92, 47099), (93, 47126), (95, 47138), (97, 47174), (99, 47222), (100, 47279), (101, 47321), (103, 47384), (105, 47411), (106, 47474), (107, 47501), (108, 47528), (109, 47537), (110, 47540), (112, 47579), (113, 47615), (115, 47678), (116, 47723), (117, 47753), (118, 47768), (119, 47849), (120, 47912), (121, 47984), (122, 48017), (123, 48122), (124, 48140), (125, 48161), (126, 48182), (127, 48272), (128, 48305), (129, 48320), (130, 48374), (131, 48401), (132, 48407), (133, 48470), (134, 48488), (135, 48542),

Gene: RubyRalph_39 Start: 25839, Stop: 28808, Start Num: 2
Candidate Starts for RubyRalph_39:
(Start: 2 @25839 has 3 MA's), (3, 25869), (6, 26001), (8, 26040), (10, 26085), (11, 26163), (15, 26265), (17, 26289), (18, 26295), (19, 26391), (22, 26487), (24, 26571), (34, 26769), (36, 26844), (37, 26871), (40, 26961), (41, 26964), (42, 26973), (43, 26985), (44, 27018), (45, 27045), (47, 27111), (48, 27117), (50, 27162), (52, 27183), (55, 27312), (56, 27357), (57, 27399), (58, 27414), (59, 27423), (60, 27456), (62, 27588), (63, 27648), (67, 27744), (69, 27762), (73, 27786), (74, 27789), (77, 27975), (78, 28035), (79, 28056), (80, 28071), (82, 28104), (83, 28122), (84, 28137), (87, 28191), (88, 28221), (89, 28281), (90, 28284), (94, 28341), (96, 28371), (98, 28389), (100, 28473), (102, 28530), (104, 28584), (111, 28716), (113, 28764), (114, 28767),

Gene: SadLad_41 Start: 26782, Stop: 29751, Start Num: 2
Candidate Starts for SadLad_41:
(Start: 2 @26782 has 3 MA's), (3, 26812), (6, 26944), (8, 26983), (10, 27028), (11, 27106), (15, 27208), (17, 27232), (18, 27238), (19, 27334), (22, 27430), (24, 27514), (34, 27712), (36, 27787), (37, 27814), (40, 27904), (41, 27907), (42, 27916), (43, 27928), (44, 27961), (45, 27988), (47, 28054), (48, 28060), (50, 28105), (52, 28126), (55, 28255), (56, 28300), (57, 28342), (58, 28357), (59, 28366), (60, 28399), (62, 28531), (63, 28591), (67, 28687), (69, 28705), (73, 28729), (74, 28732), (77, 28918), (78, 28978), (79, 28999), (80, 29014), (82, 29047), (83, 29065), (84, 29080), (87, 29134), (88, 29164), (89, 29224), (90, 29227), (94, 29284), (96, 29314), (98, 29332), (100, 29416), (102, 29473), (104, 29527), (111, 29659), (113, 29707), (114, 29710),