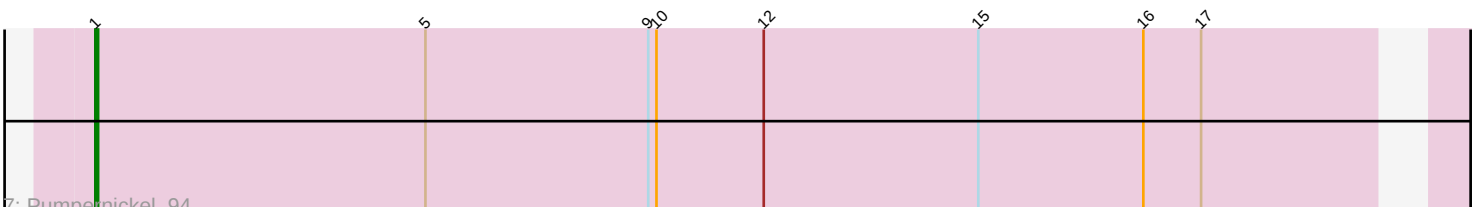
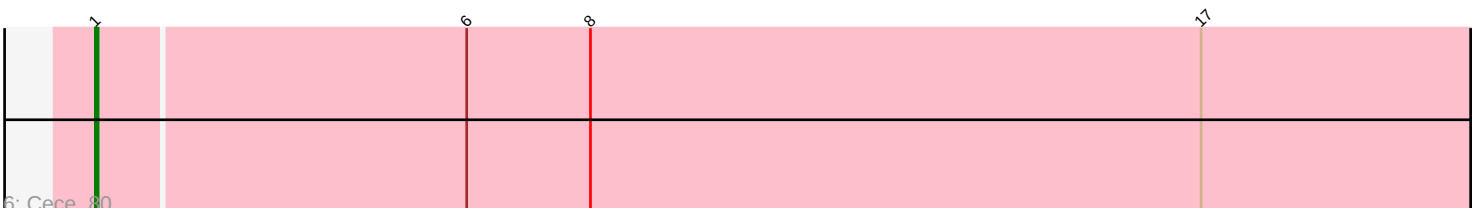
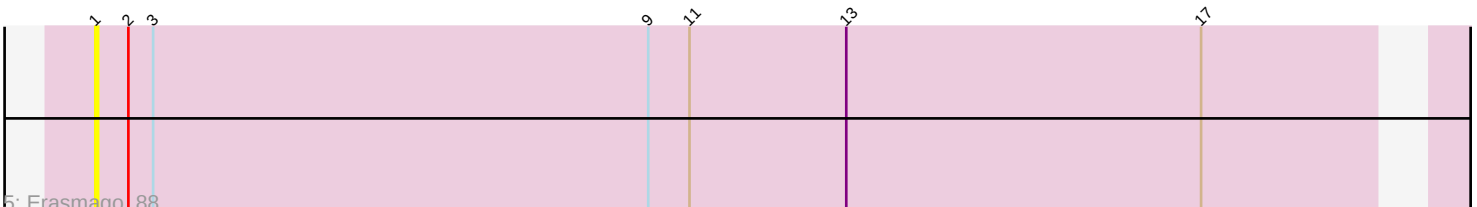
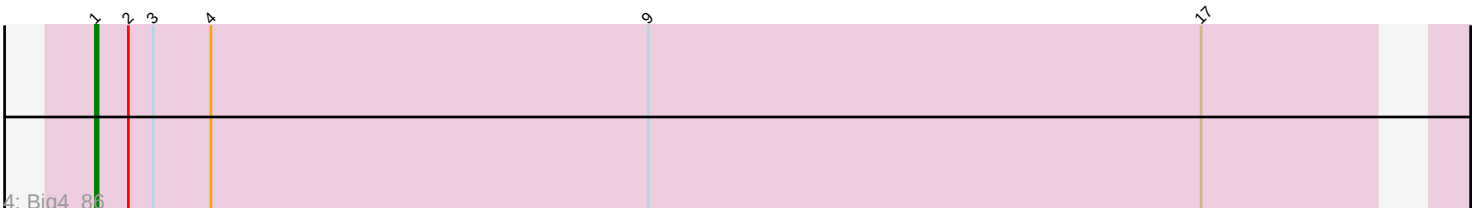


Zoomed Pham 331552



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 331552 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331552 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : PauloDiaboli_97, Dodo_99
- Track 2 : A3Wally_97
- Track 3 : Zooman_82
- Track 4 : Big4_86
- Track 5 : Erasmago_88
- Track 6 : Cece_80
- Track 7 : Pumpernickel_94

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 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally_97, Big4_86, Cece_80, Dodo_99, Erasmago_88, PauloDiaboli_97, Pumpernickel_94, Zooman_82,

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 8 of 8 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_97 (GD1), Big4_86 (GD2), Cece_80 (GD3), Dodo_99 (GD1), Erasmago_88 (GD2), PauloDiaboli_97 (GD1), Pumpernickel_94 (GD4), Zooman_82 (GD2),

Summary by clusters:

There are 4 clusters represented in this pham: GD1, GD2, GD3, GD4,

Info for manual annotations of cluster GD1:

- Start number 1 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 1 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 1 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 1 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_97 Start: 51969, Stop: 56393, Start Num: 1

Candidate Starts for A3Wally_97:

(Start: 1 @51969 has 7 MA's), (7, 52125), (9, 52170), (14, 52257), (17, 52371), (28, 53226), (30, 53247), (32, 53280), (34, 53382), (42, 53532), (47, 53628), (53, 53751), (56, 53847), (62, 53958), (64, 54039), (65, 54066), (70, 54207), (73, 54225), (75, 54246), (84, 54360), (90, 54393), (95, 54420), (103, 54495), (129, 54699), (131, 54708), (137, 54771), (140, 54804), (144, 54858), (153, 55041), (155, 55065), (156, 55068), (157, 55086), (161, 55230), (163, 55296), (165, 55353), (169, 55440), (174, 55491), (177, 55623), (179, 55665), (180, 55689), (181, 55704), (183, 55725), (184, 55749), (185, 55755), (188, 55833), (189, 55848), (192, 55968), (193, 55980), (194, 55998), (195, 56079), (196, 56130), (200, 56277), (202, 56292), (203, 56301), (205, 56358), (207, 56376),

Gene: Big4_86 Start: 50992, Stop: 55611, Start Num: 1

Candidate Starts for Big4_86:

(Start: 1 @50992 has 7 MA's), (2, 51004), (3, 51013), (4, 51034), (9, 51193), (17, 51394), (21, 51901), (22, 51940), (26, 52171), (28, 52240), (32, 52294), (37, 52444), (39, 52459), (46, 52609), (49, 52717), (50, 52732), (52, 52759), (54, 52768), (61, 52918), (62, 52963), (63, 53017), (65, 53071), (68, 53158), (74, 53236), (79, 53272), (83, 53362), (87, 53392), (91, 53404), (92, 53413), (96, 53446), (98, 53461), (104, 53545), (105, 53554), (110, 53602), (113, 53677), (117, 53704), (120, 53737), (122, 53770), (123, 53782), (126, 53836), (136, 53968), (140, 54016), (145, 54082), (148, 54112), (151, 54214), (154, 54256), (163, 54508), (165, 54565), (169, 54652), (170, 54673), (171, 54676), (174, 54703), (179, 54880), (180, 54904), (181, 54919), (183, 54940), (184, 54964), (188, 55051), (189, 55066), (193, 55198), (194, 55216), (195, 55297), (196, 55348), (200, 55495), (203, 55519), (206, 55588), (207, 55594),

Gene: Cece_80 Start: 46891, Stop: 50733, Start Num: 1

Candidate Starts for Cece_80:

(Start: 1 @46891 has 7 MA's), (6, 47023), (8, 47068), (17, 47290), (19, 47467), (23, 47911), (25, 48070), (27, 48166), (29, 48187), (35, 48364), (38, 48391), (40, 48454), (41, 48481), (44, 48514), (51, 48715), (52, 48724), (57, 48835), (58, 48838), (59, 48847), (76, 49228), (77, 49231), (81, 49297), (82, 49300), (88, 49333), (94, 49357), (100, 49390), (104, 49444), (106, 49462), (111, 49525), (112, 49543), (116, 49573), (119, 49591), (128, 49639), (134, 49708), (135, 49723), (138, 49747), (139, 49762), (142, 49789), (146, 49855), (147, 49861), (150, 49969), (152, 49999), (158, 50152), (159, 50158), (160, 50170), (162, 50221), (167, 50359), (168, 50362), (172, 50404), (173, 50416), (176, 50512), (179, 50593), (180, 50617), (182, 50641), (186, 50695), (187, 50698),

Gene: Dodo_99 Start: 52291, Stop: 56715, Start Num: 1

Candidate Starts for Dodo_99:

(Start: 1 @52291 has 7 MA's), (7, 52447), (9, 52492), (14, 52579), (17, 52693), (28, 53548), (30, 53569), (32, 53602), (34, 53704), (42, 53854), (47, 53950), (53, 54073), (56, 54169), (62, 54280), (64, 54361), (65, 54388), (70, 54529), (73, 54547), (75, 54568), (84, 54682), (90, 54715), (95, 54742), (103, 54817), (129, 55021), (131, 55030), (137, 55093), (140, 55126), (144, 55180), (153, 55363), (155, 55387), (156, 55390), (157, 55408), (161, 55552), (163, 55618), (164, 55642), (165, 55675), (169, 55762), (174, 55813), (177, 55945), (179, 55987), (180, 56011), (181, 56026), (183, 56047), (184, 56071), (185, 56077), (188, 56155), (189, 56170), (193, 56302), (194, 56320), (195, 56401), (196, 56452), (200, 56599), (202, 56614), (203, 56623), (205, 56680), (207, 56698),

Gene: Erasmago_88 Start: 48589, Stop: 53256, Start Num: 1

Candidate Starts for Erasmago_88:

(Start: 1 @48589 has 7 MA's), (2, 48601), (3, 48610), (9, 48790), (11, 48805), (13, 48862), (17, 48991), (28, 49837), (31, 49879), (36, 50029), (37, 50041), (39, 50056), (43, 50179), (47, 50248), (62, 50578), (63, 50632), (64, 50659), (65, 50686), (70, 50827), (73, 50845), (78, 50884), (80, 50902), (84, 50980), (86, 50998), (89, 51010), (93, 51034), (99, 51088), (101, 51130), (107, 51190), (114, 51304), (124, 51445), (125, 51451), (127, 51499), (133, 51577), (137, 51625), (140, 51658), (143, 51700), (149, 51808), (153, 51895), (155, 51919), (156, 51922), (161, 52084), (163, 52150), (165, 52207), (169, 52294), (170, 52315), (171, 52318), (174, 52345), (175, 52393), (180, 52546), (181, 52561), (183, 52582), (188, 52693), (189, 52708), (192, 52828), (193, 52840), (194, 52858), (196, 52990), (197, 53041), (198, 53113), (201, 53149), (202, 53152), (204, 53209), (206, 53233), (207, 53239),

Gene: PauloDiaboli_97 Start: 51326, Stop: 55750, Start Num: 1

Candidate Starts for PauloDiaboli_97:

(Start: 1 @51326 has 7 MA's), (7, 51482), (9, 51527), (14, 51614), (17, 51728), (28, 52583), (30, 52604), (32, 52637), (34, 52739), (42, 52889), (47, 52985), (53, 53108), (56, 53204), (62, 53315), (64, 53396), (65, 53423), (70, 53564), (73, 53582), (75, 53603), (84, 53717), (90, 53750), (95, 53777), (103, 53852), (129, 54056), (131, 54065), (137, 54128), (140, 54161), (144, 54215), (153, 54398), (155, 54422), (156, 54425), (157, 54443), (161, 54587), (163, 54653), (164, 54677), (165, 54710), (169, 54797), (174, 54848), (177, 54980), (179, 55022), (180, 55046), (181, 55061), (183, 55082), (184, 55106), (185, 55112), (188, 55190), (189, 55205), (193, 55337), (194, 55355), (195, 55436), (196, 55487), (200, 55634), (202, 55649), (203, 55658), (205, 55715), (207, 55733),

Gene: Pumpernickel_94 Start: 52653, Stop: 56996, Start Num: 1

Candidate Starts for Pumpernickel_94:

(Start: 1 @52653 has 7 MA's), (5, 52773), (9, 52854), (10, 52857), (12, 52896), (15, 52974), (16, 53034), (17, 53055), (20, 53469), (24, 53706), (32, 53961), (33, 54030), (39, 54126), (48, 54336), (53, 54435), (55, 54474), (60, 54573), (66, 54747), (67, 54819), (68, 54831), (71, 54873), (72, 54876), (89, 54984), (101, 55041), (102, 55059), (103, 55068), (107, 55101), (109, 55125), (118, 55215), (130, 55305), (132, 55323), (137, 55377), (140, 55410), (144, 55464), (149, 55560), (163, 55902), (165, 55959), (166, 56019), (169, 56046), (174, 56097), (177, 56229), (178, 56253), (188, 56439), (189, 56454), (192, 56574), (193, 56586), (194, 56604), (196, 56736), (197, 56787), (199, 56874), (201, 56895), (203, 56907), (206, 56976),

Gene: Zooman_82 Start: 49648, Stop: 54291, Start Num: 1

Candidate Starts for Zooman_82:

(Start: 1 @49648 has 7 MA's), (2, 49660), (3, 49669), (4, 49690), (9, 49849), (17, 50050), (18, 50080), (26, 50827), (28, 50896), (31, 50938), (32, 50950), (39, 51115), (41, 51199), (45, 51262), (46, 51265), (49, 51373), (55, 51457), (61, 51574), (62, 51619), (63, 51673), (65, 51727), (68, 51814), (69, 51826), (74, 51892), (79, 51928), (83, 52018), (85, 52027), (97, 52114), (104, 52210), (108, 52246), (110, 52267), (115, 52360), (117, 52369), (120, 52402), (121, 52426), (123, 52447), (126, 52501), (139,

52666), (141, 52690), (151, 52879), (154, 52921), (163, 53173), (165, 53230), (169, 53317), (170, 53338), (171, 53341), (174, 53368), (175, 53416), (188, 53719), (189, 53734), (190, 53743), (191, 53839), (193, 53875), (194, 53893), (196, 54028), (200, 54175), (203, 54199), (207, 54274),