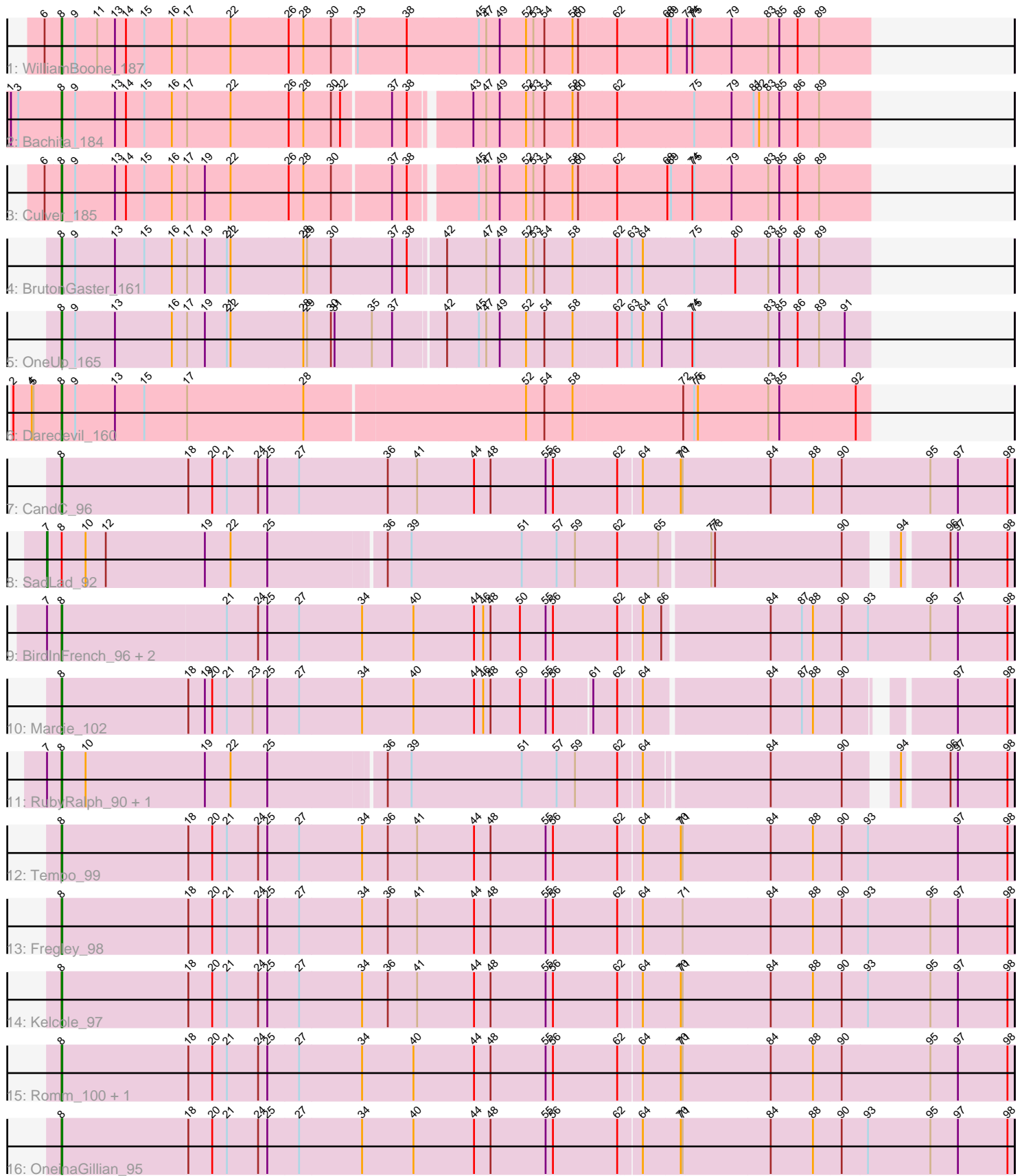


Pham 86822



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 86822 Report

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

Pham number 86822 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : WilliamBoone_187
- Track 2 : Bachita_184
- Track 3 : Culver_185
- Track 4 : BrutonGaster_161
- Track 5 : OneUp_165
- Track 6 : Daredevil_160
- Track 7 : CandC_96
- Track 8 : SadLad_92
- Track 9 : BirdInFrench_96, Pepe25_94, Wilca_96
- Track 10 : Marcie_102
- Track 11 : RubyRalph_90, Fransoyer_90
- Track 12 : Tempo_99
- Track 13 : Fregley_98
- Track 14 : Kelcole_97
- Track 15 : Romm_100, RobinRose_100
- Track 16 : OneinaGillian_95

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

The start number called the most often in the published annotations is 8, it was called in 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bachita_184, BirdInFrench_96, BrutonGaster_161, CandC_96, Culver_185, Daredevil_160, Fransoyer_90, Fregley_98, Kelcole_97, Marcie_102, OneUp_165, OneinaGillian_95, Pepe25_94, RobinRose_100, Romm_100, RubyRalph_90, Tempo_99, Wilca_96, WilliamBoone_187,

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

- SadLad_92,

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

-

Summary by start number:

Start 7:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 16.7% of time when present
- Phage (with cluster) where this start called: SadLad_92 (EG),

Start 8:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 17
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Bachita_184 (CQ1), BirdInFrench_96 (EG), BrutonGaster_161 (CQ2), CandC_96 (EG), Culver_185 (CQ1), Daredevil_160 (DL), Fransoyer_90 (EG), Fregley_98 (EG), Kelcole_97 (EG), Marcie_102 (EG), OneUp_165 (CQ2), OneinaGillian_95 (EG), Pepe25_94 (EG), RobinRose_100 (EG), Romm_100 (EG), RubyRalph_90 (EG), Tempo_99 (EG), Wilca_96 (EG), WilliamBoone_187 (CQ1),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, CQ1, EG, DL,

Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 3 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 8 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DL:

- Start number 8 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster EG:

- Start number 7 was manually annotated 1 time for cluster EG.
- Start number 8 was manually annotated 10 times for cluster EG.

Gene Information:

Gene: Bachita_184 Start: 91155, Stop: 89902, Start Num: 8

Candidate Starts for Bachita_184:

(1, 91236), (3, 91224), (Start: 8 @91155 has 16 MA's), (9, 91137), (13, 91077), (14, 91059), (15, 91029), (16, 90984), (17, 90960), (22, 90891), (26, 90798), (28, 90774), (30, 90729), (32, 90714), (37, 90639), (38, 90615), (43, 90531), (47, 90510), (49, 90489), (52, 90447), (53, 90435), (54, 90417), (58, 90372), (60, 90363), (62, 90303), (75, 90186), (79, 90126), (81, 90090), (82, 90081), (83, 90066), (85, 90048), (86, 90018), (89, 89985),

Gene: BirdInFrench_96 Start: 58566, Stop: 57043, Start Num: 8

Candidate Starts for BirdInFrench_96:

(Start: 7 @58587 has 1 MA's), (Start: 8 @58566 has 16 MA's), (21, 58299), (24, 58248), (25, 58233), (27, 58182), (34, 58080), (40, 57996), (44, 57897), (46, 57882), (48, 57870), (50, 57822), (55, 57780), (56, 57768), (62, 57663), (64, 57630), (66, 57600), (84, 57438), (87, 57387), (88, 57369), (90, 57324),

(93, 57282), (95, 57180), (97, 57135), (98, 57054),

Gene: BrutonGaster_161 Start: 87151, Stop: 85880, Start Num: 8

Candidate Starts for BrutonGaster_161:

(Start: 8 @87151 has 16 MA's), (9, 87133), (13, 87073), (15, 87025), (16, 86980), (17, 86956), (19, 86929), (21, 86893), (22, 86887), (28, 86770), (29, 86764), (30, 86725), (37, 86629), (38, 86605), (42, 86551), (47, 86488), (49, 86467), (52, 86425), (53, 86413), (54, 86395), (58, 86350), (62, 86281), (63, 86260), (64, 86242), (75, 86164), (80, 86098), (83, 86044), (85, 86026), (86, 85996), (89, 85963),

Gene: CandC_96 Start: 58704, Stop: 57175, Start Num: 8

Candidate Starts for CandC_96:

(Start: 8 @58704 has 16 MA's), (18, 58500), (20, 58461), (21, 58437), (24, 58386), (25, 58371), (27, 58320), (36, 58179), (41, 58131), (44, 58038), (48, 58011), (55, 57921), (56, 57909), (62, 57807), (64, 57774), (70, 57714), (71, 57711), (84, 57570), (88, 57501), (90, 57456), (95, 57312), (97, 57267), (98, 57186),

Gene: Culver_185 Start: 90418, Stop: 89162, Start Num: 8

Candidate Starts for Culver_185:

(6, 90445), (Start: 8 @90418 has 16 MA's), (9, 90400), (13, 90340), (14, 90322), (15, 90292), (16, 90247), (17, 90223), (19, 90196), (22, 90154), (26, 90061), (28, 90037), (30, 89992), (37, 89902), (38, 89878), (45, 89785), (47, 89773), (49, 89752), (52, 89710), (53, 89698), (54, 89680), (58, 89635), (60, 89626), (62, 89566), (68, 89488), (69, 89482), (74, 89449), (75, 89446), (79, 89386), (83, 89326), (85, 89308), (86, 89278), (89, 89245),

Gene: Daredevil_160 Start: 87278, Stop: 86001, Start Num: 8

Candidate Starts for Daredevil_160:

(2, 87353), (4, 87323), (5, 87320), (Start: 8 @87278 has 16 MA's), (9, 87260), (13, 87200), (15, 87152), (17, 87083), (28, 86897), (52, 86552), (54, 86522), (58, 86477), (72, 86303), (75, 86285), (76, 86279), (83, 86165), (85, 86147), (92, 86024),

Gene: Fransoyer_90 Start: 57934, Stop: 56471, Start Num: 8

Candidate Starts for Fransoyer_90:

(Start: 7 @57958 has 1 MA's), (Start: 8 @57934 has 16 MA's), (10, 57895), (19, 57700), (22, 57658), (25, 57598), (36, 57418), (39, 57379), (51, 57199), (57, 57142), (59, 57112), (62, 57043), (64, 57010), (84, 56818), (90, 56704), (94, 56644), (96, 56575), (97, 56563), (98, 56482),

Gene: Fregley_98 Start: 58750, Stop: 57221, Start Num: 8

Candidate Starts for Fregley_98:

(Start: 8 @58750 has 16 MA's), (18, 58546), (20, 58507), (21, 58483), (24, 58432), (25, 58417), (27, 58366), (34, 58264), (36, 58225), (41, 58177), (44, 58084), (48, 58057), (55, 57967), (56, 57955), (62, 57853), (64, 57820), (71, 57757), (84, 57616), (88, 57547), (90, 57502), (93, 57460), (95, 57358), (97, 57313), (98, 57232),

Gene: Kelcole_97 Start: 59257, Stop: 57728, Start Num: 8

Candidate Starts for Kelcole_97:

(Start: 8 @59257 has 16 MA's), (18, 59053), (20, 59014), (21, 58990), (24, 58939), (25, 58924), (27, 58873), (34, 58771), (36, 58732), (41, 58684), (44, 58591), (48, 58564), (55, 58474), (56, 58462), (62, 58360), (64, 58327), (70, 58267), (71, 58264), (84, 58123), (88, 58054), (90, 58009), (93, 57967), (95, 57865), (97, 57820), (98, 57739),

Gene: Marcie_102 Start: 59394, Stop: 57928, Start Num: 8

Candidate Starts for Marcie_102:

(Start: 8 @59394 has 16 MA's), (18, 59190), (19, 59163), (20, 59151), (21, 59127), (23, 59085), (25, 59061), (27, 59010), (34, 58908), (40, 58824), (44, 58725), (46, 58710), (48, 58698), (50, 58650), (55, 58608), (56, 58596), (61, 58539), (62, 58500), (64, 58467), (84, 58275), (87, 58224), (88, 58206), (90, 58161), (97, 58020), (98, 57939),

Gene: OneUp_165 Start: 90272, Stop: 89001, Start Num: 8

Candidate Starts for OneUp_165:

(Start: 8 @90272 has 16 MA's), (9, 90254), (13, 90194), (16, 90101), (17, 90077), (19, 90050), (21, 90014), (22, 90008), (28, 89891), (29, 89885), (30, 89846), (31, 89840), (35, 89783), (37, 89750), (42, 89672), (45, 89621), (47, 89609), (49, 89588), (52, 89546), (54, 89516), (58, 89471), (62, 89402), (63, 89381), (64, 89363), (67, 89333), (74, 89288), (75, 89285), (83, 89165), (85, 89147), (86, 89117), (89, 89084), (91, 89042),

Gene: OneinaGillian_95 Start: 58198, Stop: 56666, Start Num: 8

Candidate Starts for OneinaGillian_95:

(Start: 8 @58198 has 16 MA's), (18, 57994), (20, 57955), (21, 57931), (24, 57880), (25, 57865), (27, 57814), (34, 57712), (40, 57628), (44, 57529), (48, 57502), (55, 57412), (56, 57400), (62, 57298), (64, 57265), (70, 57205), (71, 57202), (84, 57061), (88, 56992), (90, 56947), (93, 56905), (95, 56803), (97, 56758), (98, 56677),

Gene: Pepe25_94 Start: 57485, Stop: 55962, Start Num: 8

Candidate Starts for Pepe25_94:

(Start: 7 @57506 has 1 MA's), (Start: 8 @57485 has 16 MA's), (21, 57218), (24, 57167), (25, 57152), (27, 57101), (34, 56999), (40, 56915), (44, 56816), (46, 56801), (48, 56789), (50, 56741), (55, 56699), (56, 56687), (62, 56582), (64, 56549), (66, 56519), (84, 56357), (87, 56306), (88, 56288), (90, 56243), (93, 56201), (95, 56099), (97, 56054), (98, 55973),

Gene: RobinRose_100 Start: 59332, Stop: 57800, Start Num: 8

Candidate Starts for RobinRose_100:

(Start: 8 @59332 has 16 MA's), (18, 59128), (20, 59089), (21, 59065), (24, 59014), (25, 58999), (27, 58948), (34, 58846), (40, 58762), (44, 58663), (48, 58636), (55, 58546), (56, 58534), (62, 58432), (64, 58399), (70, 58339), (71, 58336), (84, 58195), (88, 58126), (90, 58081), (95, 57937), (97, 57892), (98, 57811),

Gene: Romm_100 Start: 59329, Stop: 57797, Start Num: 8

Candidate Starts for Romm_100:

(Start: 8 @59329 has 16 MA's), (18, 59125), (20, 59086), (21, 59062), (24, 59011), (25, 58996), (27, 58945), (34, 58843), (40, 58759), (44, 58660), (48, 58633), (55, 58543), (56, 58531), (62, 58429), (64, 58396), (70, 58336), (71, 58333), (84, 58192), (88, 58123), (90, 58078), (95, 57934), (97, 57889), (98, 57808),

Gene: RubyRalph_90 Start: 57535, Stop: 56072, Start Num: 8

Candidate Starts for RubyRalph_90:

(Start: 7 @57559 has 1 MA's), (Start: 8 @57535 has 16 MA's), (10, 57496), (19, 57301), (22, 57259), (25, 57199), (36, 57019), (39, 56980), (51, 56800), (57, 56743), (59, 56713), (62, 56644), (64, 56611), (84, 56419), (90, 56305), (94, 56245), (96, 56176), (97, 56164), (98, 56083),

Gene: SadLad_92 Start: 58704, Stop: 57208, Start Num: 7

Candidate Starts for SadLad_92:

(Start: 7 @58704 has 1 MA's), (Start: 8 @58680 has 16 MA's), (10, 58641), (12, 58608), (19, 58446), (22, 58404), (25, 58344), (36, 58164), (39, 58125), (51, 57945), (57, 57888), (59, 57858), (62, 57792), (65, 57726), (77, 57651), (78, 57645), (90, 57441), (94, 57381), (96, 57312), (97, 57300), (98, 57219),

Gene: Tempo_99 Start: 59366, Stop: 57837, Start Num: 8

Candidate Starts for Tempo_99:

(Start: 8 @59366 has 16 MA's), (18, 59162), (20, 59123), (21, 59099), (24, 59048), (25, 59033), (27, 58982), (34, 58880), (36, 58841), (41, 58793), (44, 58700), (48, 58673), (55, 58583), (56, 58571), (62, 58469), (64, 58436), (70, 58376), (71, 58373), (84, 58232), (88, 58163), (90, 58118), (93, 58076), (97, 57929), (98, 57848),

Gene: Wilca_96 Start: 58566, Stop: 57043, Start Num: 8

Candidate Starts for Wilca_96:

(Start: 7 @58587 has 1 MA's), (Start: 8 @58566 has 16 MA's), (21, 58299), (24, 58248), (25, 58233), (27, 58182), (34, 58080), (40, 57996), (44, 57897), (46, 57882), (48, 57870), (50, 57822), (55, 57780), (56, 57768), (62, 57663), (64, 57630), (66, 57600), (84, 57438), (87, 57387), (88, 57369), (90, 57324), (93, 57282), (95, 57180), (97, 57135), (98, 57054),

Gene: WilliamBoone_187 Start: 89915, Stop: 88641, Start Num: 8

Candidate Starts for WilliamBoone_187:

(6, 89942), (Start: 8 @89915 has 16 MA's), (9, 89897), (11, 89864), (13, 89837), (14, 89819), (15, 89789), (16, 89744), (17, 89720), (22, 89651), (26, 89558), (28, 89534), (30, 89492), (33, 89456), (38, 89378), (45, 89264), (47, 89252), (49, 89231), (52, 89189), (53, 89177), (54, 89159), (58, 89114), (60, 89105), (62, 89045), (68, 88967), (69, 88961), (73, 88937), (74, 88928), (75, 88925), (79, 88865), (83, 88805), (85, 88787), (86, 88757), (89, 88724),