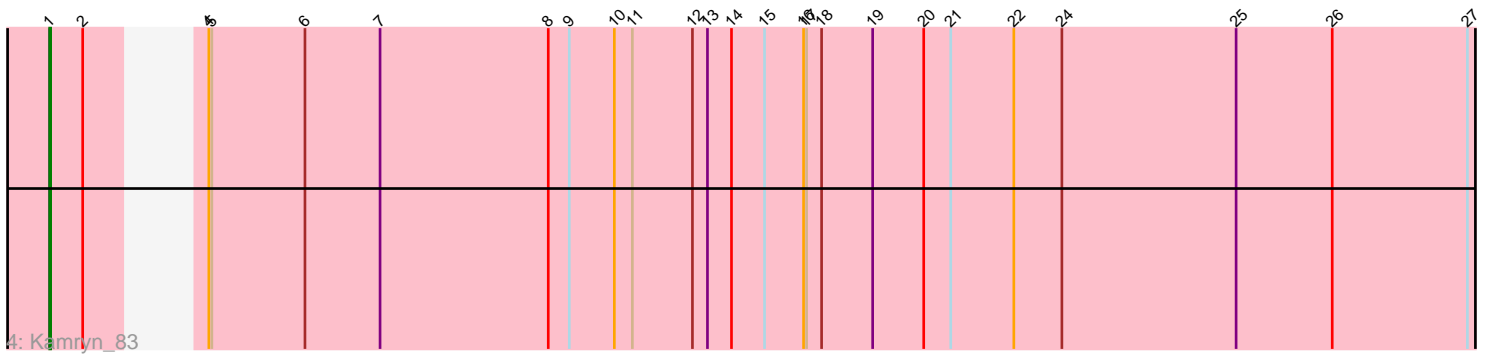
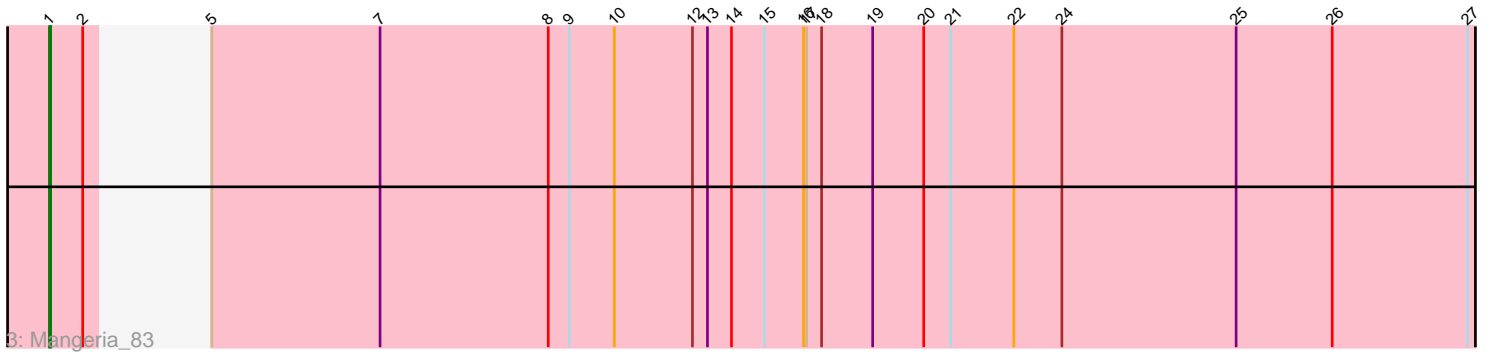
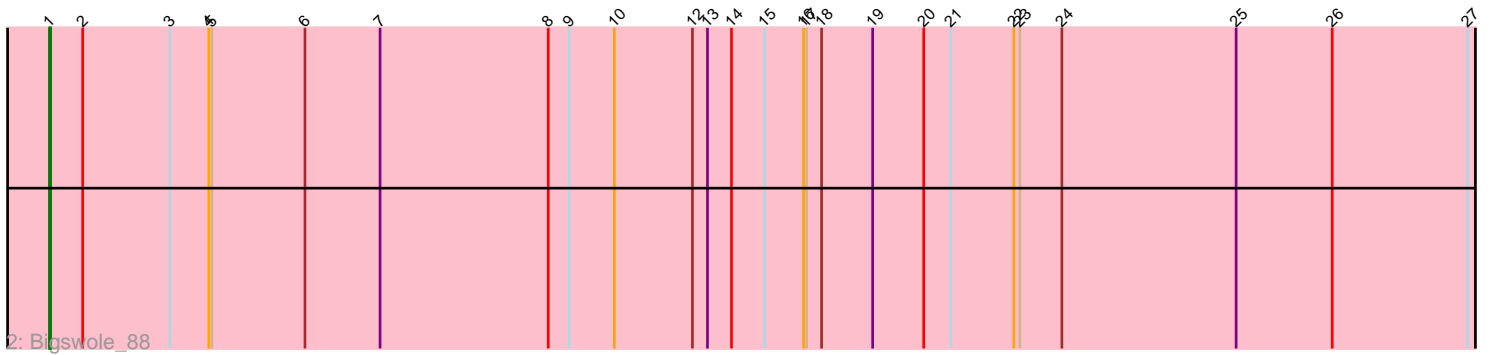
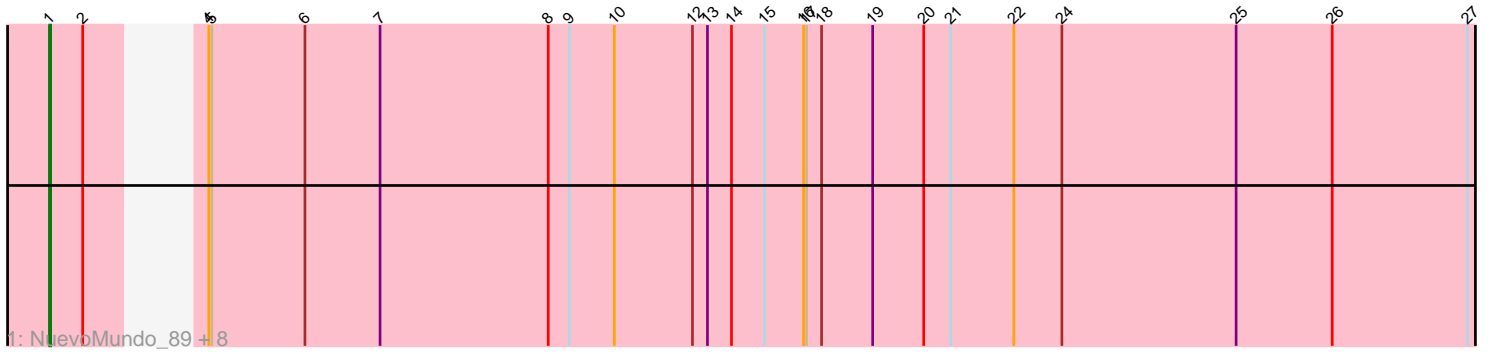


Zoomed Pham 216741



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 216741 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216741 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : NuevoMundo_89, Naval22_88, Caravan_78, Pio_86, Dandelion_89, Burrough_83, Bxz1_83, NoodleTree_86, Chomp_82
- Track 2 : Bigswole_88
- Track 3 : Mangeria_83
- Track 4 : Kamryn_83

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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bigswole_88, Burrough_83, Bxz1_83, Caravan_78, Chomp_82, Dandelion_89, Kamryn_83, Mangeria_83, Naval22_88, NoodleTree_86, NuevoMundo_89, Pio_86,

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 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bigswole_88 (C1), Burrough_83 (C1), Bxz1_83 (C1), Caravan_78 (C1), Chomp_82 (C1), Dandelion_89 (C1), Kamryn_83 (C1), Mangeria_83 (C1), Naval22_88 (C1), NoodleTree_86 (C1), NuevoMundo_89 (C1), Pio_86 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

•Start number 1 was manually annotated 11 times for cluster C1.

Gene Information:

Gene: Bigswole_88 Start: 31408, Stop: 33789, Start Num: 1

Candidate Starts for Bigswole_88:

(Start: 1 @31408 has 11 MA's), (2, 31441), (3, 31528), (4, 31567), (5, 31570), (6, 31663), (7, 31738), (8, 31906), (9, 31927), (10, 31972), (12, 32050), (13, 32065), (14, 32089), (15, 32122), (16, 32161), (17, 32164), (18, 32179), (19, 32230), (20, 32281), (21, 32308), (22, 32371), (23, 32377), (24, 32419), (25, 32593), (26, 32689), (27, 32824), (28, 32896), (29, 32971), (30, 33010), (31, 33094), (32, 33109), (33, 33148), (34, 33193), (35, 33199), (36, 33277), (37, 33325), (38, 33352), (39, 33358), (40, 33364), (42, 33574), (43, 33610), (44, 33775),

Gene: Burrough_83 Start: 29412, Stop: 31721, Start Num: 1

Candidate Starts for Burrough_83:

(Start: 1 @29412 has 11 MA's), (2, 29445), (4, 29499), (5, 29502), (6, 29595), (7, 29670), (8, 29838), (9, 29859), (10, 29904), (12, 29982), (13, 29997), (14, 30021), (15, 30054), (16, 30093), (17, 30096), (18, 30111), (19, 30162), (20, 30213), (21, 30240), (22, 30303), (24, 30351), (25, 30525), (26, 30621), (27, 30756), (28, 30828), (29, 30903), (30, 30942), (31, 31026), (32, 31041), (33, 31080), (34, 31125), (35, 31131), (36, 31209), (37, 31257), (38, 31284), (39, 31290), (40, 31296), (42, 31506), (43, 31542), (44, 31707),

Gene: Bxz1_83 Start: 30463, Stop: 32772, Start Num: 1

Candidate Starts for Bxz1_83:

(Start: 1 @30463 has 11 MA's), (2, 30496), (4, 30550), (5, 30553), (6, 30646), (7, 30721), (8, 30889), (9, 30910), (10, 30955), (12, 31033), (13, 31048), (14, 31072), (15, 31105), (16, 31144), (17, 31147), (18, 31162), (19, 31213), (20, 31264), (21, 31291), (22, 31354), (24, 31402), (25, 31576), (26, 31672), (27, 31807), (28, 31879), (29, 31954), (30, 31993), (31, 32077), (32, 32092), (33, 32131), (34, 32176), (35, 32182), (36, 32260), (37, 32308), (38, 32335), (39, 32341), (40, 32347), (42, 32557), (43, 32593), (44, 32758),

Gene: Caravan_78 Start: 28807, Stop: 31116, Start Num: 1

Candidate Starts for Caravan_78:

(Start: 1 @28807 has 11 MA's), (2, 28840), (4, 28894), (5, 28897), (6, 28990), (7, 29065), (8, 29233), (9, 29254), (10, 29299), (12, 29377), (13, 29392), (14, 29416), (15, 29449), (16, 29488), (17, 29491), (18, 29506), (19, 29557), (20, 29608), (21, 29635), (22, 29698), (24, 29746), (25, 29920), (26, 30016), (27, 30151), (28, 30223), (29, 30298), (30, 30337), (31, 30421), (32, 30436), (33, 30475), (34, 30520), (35, 30526), (36, 30604), (37, 30652), (38, 30679), (39, 30685), (40, 30691), (42, 30901), (43, 30937), (44, 31102),

Gene: Chomp_82 Start: 28644, Stop: 30953, Start Num: 1

Candidate Starts for Chomp_82:

(Start: 1 @28644 has 11 MA's), (2, 28677), (4, 28731), (5, 28734), (6, 28827), (7, 28902), (8, 29070), (9, 29091), (10, 29136), (12, 29214), (13, 29229), (14, 29253), (15, 29286), (16, 29325), (17, 29328), (18, 29343), (19, 29394), (20, 29445), (21, 29472), (22, 29535), (24, 29583), (25, 29757), (26, 29853), (27, 29988), (28, 30060), (29, 30135), (30, 30174), (31, 30258), (32, 30273), (33, 30312), (34, 30357), (35, 30363), (36, 30441), (37, 30489), (38, 30516), (39, 30522), (40, 30528), (42, 30738), (43, 30774), (44, 30939),

Gene: Dandelion_89 Start: 31814, Stop: 34132, Start Num: 1

Candidate Starts for Dandelion_89:

(Start: 1 @31814 has 11 MA's), (2, 31847), (4, 31910), (5, 31913), (6, 32006), (7, 32081), (8, 32249), (9, 32270), (10, 32315), (12, 32393), (13, 32408), (14, 32432), (15, 32465), (16, 32504), (17, 32507), (18, 32522), (19, 32573), (20, 32624), (21, 32651), (22, 32714), (24, 32762), (25, 32936), (26, 33032), (27, 33167), (28, 33239), (29, 33314), (30, 33353), (31, 33437), (32, 33452), (33, 33491), (34, 33536), (35, 33542), (36, 33620), (37, 33668), (38, 33695), (39, 33701), (40, 33707), (42, 33917), (43, 33953), (44, 34118),

Gene: Kamryn_83 Start: 29676, Stop: 31985, Start Num: 1

Candidate Starts for Kamryn_83:

(Start: 1 @29676 has 11 MA's), (2, 29709), (4, 29763), (5, 29766), (6, 29859), (7, 29934), (8, 30102), (9, 30123), (10, 30168), (11, 30186), (12, 30246), (13, 30261), (14, 30285), (15, 30318), (16, 30357), (17, 30360), (18, 30375), (19, 30426), (20, 30477), (21, 30504), (22, 30567), (24, 30615), (25, 30789), (26, 30885), (27, 31020), (28, 31092), (29, 31167), (30, 31206), (31, 31290), (32, 31305), (33, 31344), (34, 31389), (35, 31395), (36, 31473), (37, 31521), (38, 31548), (39, 31554), (40, 31560), (42, 31770), (43, 31806), (44, 31971),

Gene: Mangeria_83 Start: 29155, Stop: 31422, Start Num: 1

Candidate Starts for Mangeria_83:

(Start: 1 @29155 has 11 MA's), (2, 29188), (5, 29203), (7, 29371), (8, 29539), (9, 29560), (10, 29605), (12, 29683), (13, 29698), (14, 29722), (15, 29755), (16, 29794), (17, 29797), (18, 29812), (19, 29863), (20, 29914), (21, 29941), (22, 30004), (24, 30052), (25, 30226), (26, 30322), (27, 30457), (28, 30529), (29, 30604), (30, 30643), (31, 30727), (32, 30742), (33, 30781), (34, 30826), (35, 30832), (36, 30910), (37, 30958), (38, 30985), (39, 30991), (40, 30997), (41, 31021), (42, 31207), (43, 31243), (44, 31408),

Gene: Naval22_88 Start: 30756, Stop: 33065, Start Num: 1

Candidate Starts for Naval22_88:

(Start: 1 @30756 has 11 MA's), (2, 30789), (4, 30843), (5, 30846), (6, 30939), (7, 31014), (8, 31182), (9, 31203), (10, 31248), (12, 31326), (13, 31341), (14, 31365), (15, 31398), (16, 31437), (17, 31440), (18, 31455), (19, 31506), (20, 31557), (21, 31584), (22, 31647), (24, 31695), (25, 31869), (26, 31965), (27, 32100), (28, 32172), (29, 32247), (30, 32286), (31, 32370), (32, 32385), (33, 32424), (34, 32469), (35, 32475), (36, 32553), (37, 32601), (38, 32628), (39, 32634), (40, 32640), (42, 32850), (43, 32886), (44, 33051),

Gene: NoodleTree_86 Start: 30183, Stop: 32492, Start Num: 1

Candidate Starts for NoodleTree_86:

(Start: 1 @30183 has 11 MA's), (2, 30216), (4, 30270), (5, 30273), (6, 30366), (7, 30441), (8, 30609), (9, 30630), (10, 30675), (12, 30753), (13, 30768), (14, 30792), (15, 30825), (16, 30864), (17, 30867), (18, 30882), (19, 30933), (20, 30984), (21, 31011), (22, 31074), (24, 31122), (25, 31296), (26, 31392), (27, 31527), (28, 31599), (29, 31674), (30, 31713), (31, 31797), (32, 31812), (33, 31851), (34, 31896), (35, 31902), (36, 31980), (37, 32028), (38, 32055), (39, 32061), (40, 32067), (42, 32277), (43, 32313), (44, 32478),

Gene: NuevoMundo_89 Start: 31113, Stop: 33422, Start Num: 1

Candidate Starts for NuevoMundo_89:

(Start: 1 @31113 has 11 MA's), (2, 31146), (4, 31200), (5, 31203), (6, 31296), (7, 31371), (8, 31539), (9, 31560), (10, 31605), (12, 31683), (13, 31698), (14, 31722), (15, 31755), (16, 31794), (17, 31797), (18, 31812), (19, 31863), (20, 31914), (21, 31941), (22, 32004), (24, 32052), (25, 32226), (26, 32322), (27, 32457), (28, 32529), (29, 32604), (30, 32643), (31, 32727), (32, 32742), (33, 32781), (34, 32826), (35, 32832), (36, 32910), (37, 32958), (38, 32985), (39, 32991), (40, 32997), (42, 33207), (43, 33243), (44, 33408),

Gene: Pio_86 Start: 30081, Stop: 32390, Start Num: 1

Candidate Starts for Pio_86:

(Start: 1 @30081 has 11 MA's), (2, 30114), (4, 30168), (5, 30171), (6, 30264), (7, 30339), (8, 30507), (9, 30528), (10, 30573), (12, 30651), (13, 30666), (14, 30690), (15, 30723), (16, 30762), (17, 30765), (18, 30780), (19, 30831), (20, 30882), (21, 30909), (22, 30972), (24, 31020), (25, 31194), (26, 31290), (27, 31425), (28, 31497), (29, 31572), (30, 31611), (31, 31695), (32, 31710), (33, 31749), (34, 31794), (35, 31800), (36, 31878), (37, 31926), (38, 31953), (39, 31959), (40, 31965), (42, 32175), (43, 32211), (44, 32376),