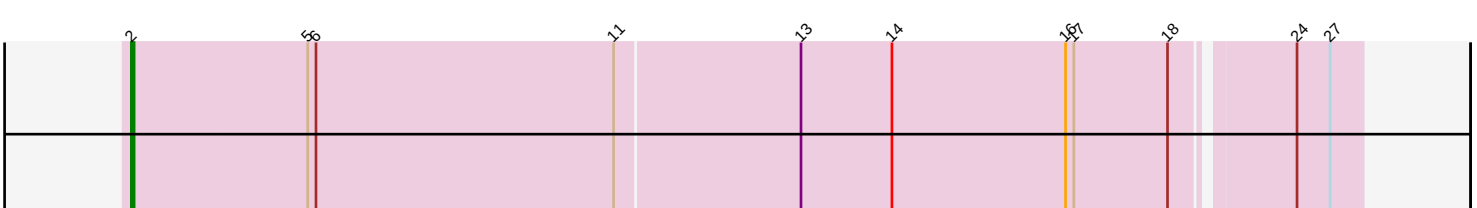
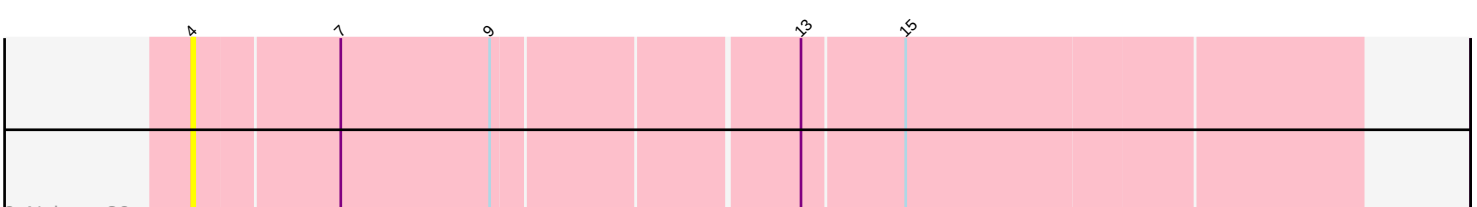
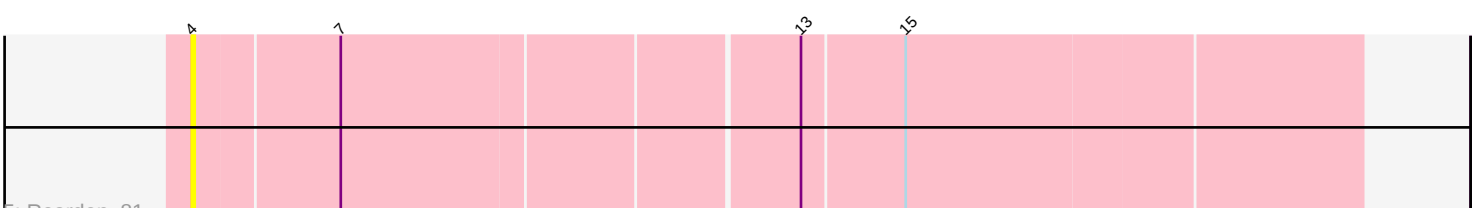
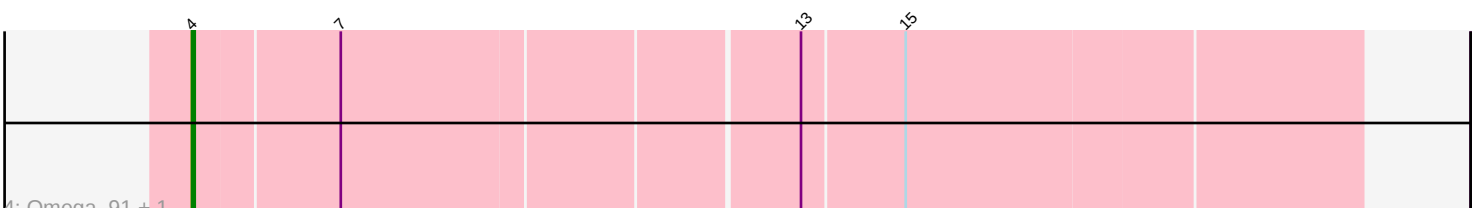
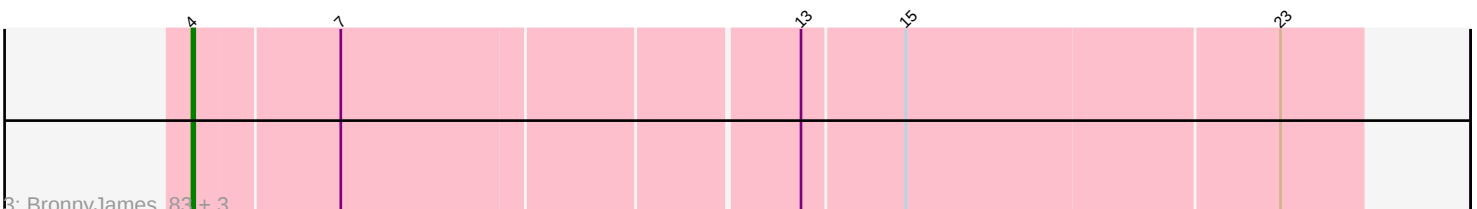
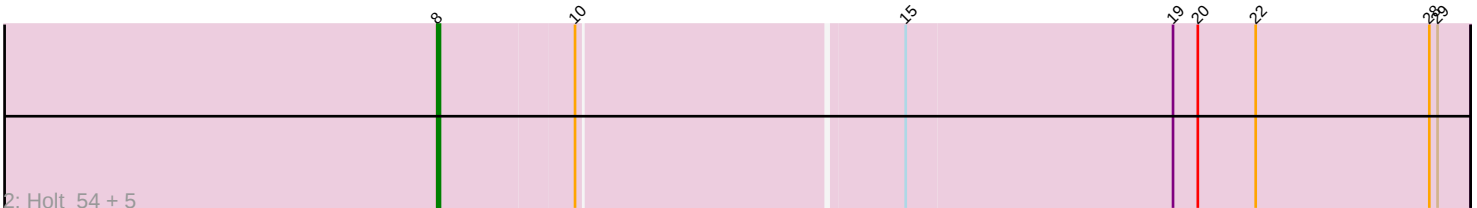
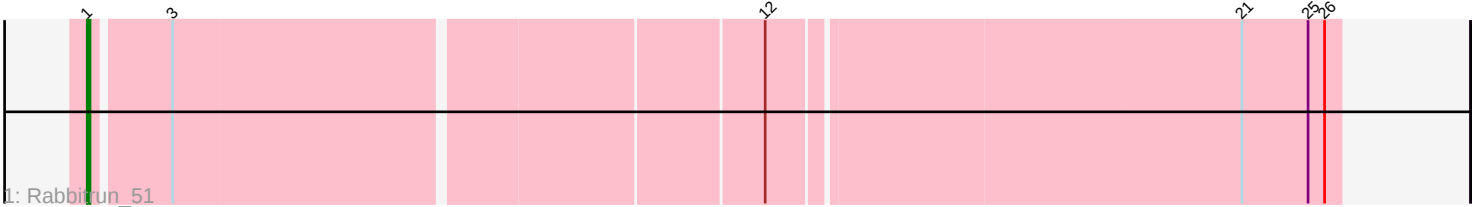


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309459 Report

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

Pham number 309459 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Rabbitrun_51
- Track 2 : Holt_54, DoctorDiddles_49, YassJohnny_45, SirDuracell_48, Amao_49, ChotaBhai_49
- Track 3 : BronnyJames_83, KashFlow_79, Nibley_78, Shaboozey_82
- Track 4 : Omega_91, LittleE_86
- Track 5 : Rearden_81
- Track 6 : Nekros_86
- Track 7 : DS6A_52

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

Genes that call this "Most Annotated" start:

- Amao_49, ChotaBhai_49, DoctorDiddles_49, Holt_54, SirDuracell_48, YassJohnny_45,

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

-

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

- BronnyJames_83, DS6A_52, KashFlow_79, LittleE_86, Nekros_86, Nibley_78, Omega_91, Rabbitrun_51, Rearden_81, Shaboozey_82,

Summary by start number:

Start 1:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun_51 (DU2),

Start 2:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A_52 (singleton),

Start 4:

- Found in 8 of 16 (50.0%) of genes in pham
- Manual Annotations of this start: 3 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BronnyJames_83 (J), KashFlow_79 (J), LittleE_86 (J), Nekros_86 (J), Nibley_78 (J), Omega_91 (J), Rearden_81 (J), Shaboozey_82 (J),

Start 8:

- Found in 6 of 16 (37.5%) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amao_49 (E), ChotaBhai_49 (E), DoctorDiddles_49 (E), Holt_54 (E), SirDuracell_48 (E), YassJohnny_45 (E),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, J, E, DU2,

Info for manual annotations of cluster DU2:

- Start number 1 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster E:

- Start number 8 was manually annotated 6 times for cluster E.

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 3 times for cluster J.

Gene Information:

Gene: Amao_49 Start: 36360, Stop: 35995, Start Num: 8

Candidate Starts for Amao_49:

(Start: 8 @36360 has 6 MA's), (10, 36312), (15, 36198), (19, 36102), (20, 36093), (22, 36072), (28, 36009), (29, 36006),

Gene: BronnyJames_83 Start: 51302, Stop: 51709, Start Num: 4

Candidate Starts for BronnyJames_83:

(Start: 4 @51302 has 3 MA's), (7, 51353), (13, 51512), (15, 51548), (23, 51680),

Gene: ChotaBhai_49 Start: 36291, Stop: 35926, Start Num: 8

Candidate Starts for ChotaBhai_49:

(Start: 8 @36291 has 6 MA's), (10, 36243), (15, 36129), (19, 36033), (20, 36024), (22, 36003), (28, 35940), (29, 35937),

Gene: DS6A_52 Start: 36971, Stop: 37405, Start Num: 2

Candidate Starts for DS6A_52:

(Start: 2 @36971 has 1 MA's), (5, 37034), (6, 37037), (11, 37145), (13, 37211), (14, 37244), (16, 37307), (17, 37310), (18, 37343), (24, 37382), (27, 37394),

Gene: DoctorDiddles_49 Start: 36327, Stop: 35962, Start Num: 8

Candidate Starts for DoctorDiddles_49:

(Start: 8 @36327 has 6 MA's), (10, 36279), (15, 36165), (19, 36069), (20, 36060), (22, 36039), (28, 35976), (29, 35973),

Gene: Holt_54 Start: 37162, Stop: 36797, Start Num: 8

Candidate Starts for Holt_54:

(Start: 8 @37162 has 6 MA's), (10, 37114), (15, 37000), (19, 36904), (20, 36895), (22, 36874), (28, 36811), (29, 36808),

Gene: KashFlow_79 Start: 50908, Stop: 51315, Start Num: 4

Candidate Starts for KashFlow_79:

(Start: 4 @50908 has 3 MA's), (7, 50959), (13, 51118), (15, 51154), (23, 51286),

Gene: LittleE_86 Start: 54538, Stop: 54945, Start Num: 4

Candidate Starts for LittleE_86:

(Start: 4 @54538 has 3 MA's), (7, 54589), (13, 54748), (15, 54784),

Gene: Nekros_86 Start: 54763, Stop: 55170, Start Num: 4

Candidate Starts for Nekros_86:

(Start: 4 @54763 has 3 MA's), (7, 54814), (9, 54868), (13, 54973), (15, 55009),

Gene: Nibley_78 Start: 50879, Stop: 51286, Start Num: 4

Candidate Starts for Nibley_78:

(Start: 4 @50879 has 3 MA's), (7, 50930), (13, 51089), (15, 51125), (23, 51257),

Gene: Omega_91 Start: 56317, Stop: 56724, Start Num: 4

Candidate Starts for Omega_91:

(Start: 4 @56317 has 3 MA's), (7, 56368), (13, 56527), (15, 56563),

Gene: Rabbitrun_51 Start: 36582, Stop: 37013, Start Num: 1

Candidate Starts for Rabbitrun_51:

(Start: 1 @36582 has 1 MA's), (3, 36609), (12, 36813), (21, 36978), (25, 37002), (26, 37008),

Gene: Rearden_81 Start: 52258, Stop: 52665, Start Num: 4

Candidate Starts for Rearden_81:

(Start: 4 @52258 has 3 MA's), (7, 52309), (13, 52468), (15, 52504),

Gene: Shaboozey_82 Start: 51323, Stop: 51730, Start Num: 4

Candidate Starts for Shaboozey_82:

(Start: 4 @51323 has 3 MA's), (7, 51374), (13, 51533), (15, 51569), (23, 51701),

Gene: SirDuracell_48 Start: 35307, Stop: 34942, Start Num: 8

Candidate Starts for SirDuracell_48:

(Start: 8 @35307 has 6 MA's), (10, 35259), (15, 35145), (19, 35049), (20, 35040), (22, 35019), (28, 34956), (29, 34953),

Gene: YassJohnny_45 Start: 35909, Stop: 35544, Start Num: 8

Candidate Starts for YassJohnny_45:

(Start: 8 @35909 has 6 MA's), (10, 35861), (15, 35747), (19, 35651), (20, 35642), (22, 35621), (28, 35558), (29, 35555),