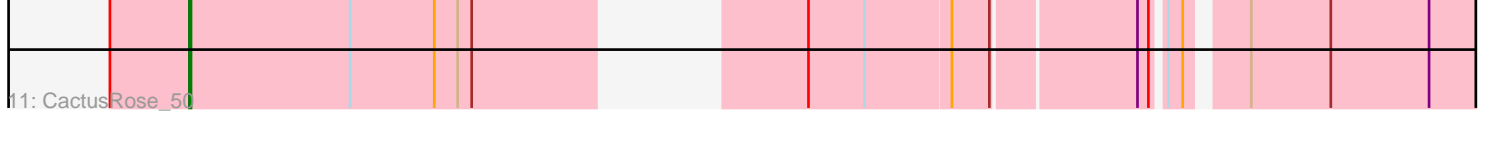
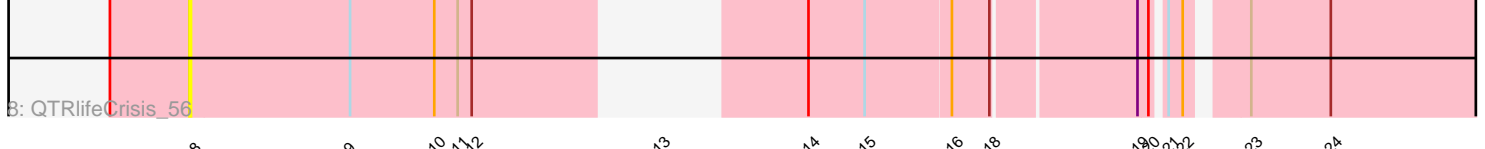
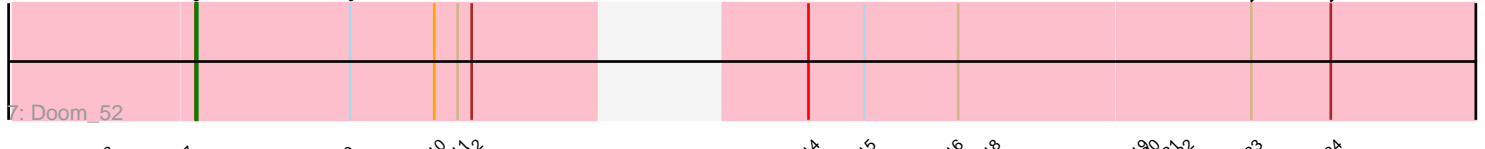
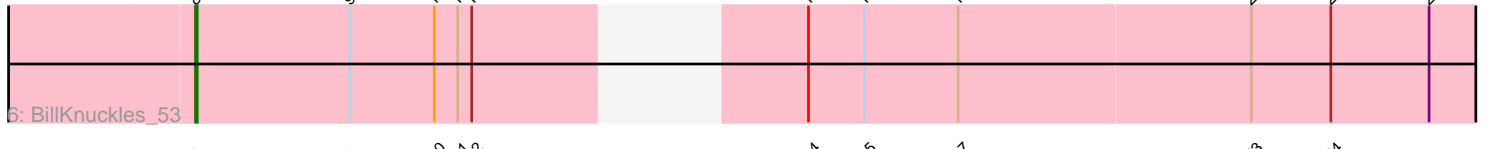
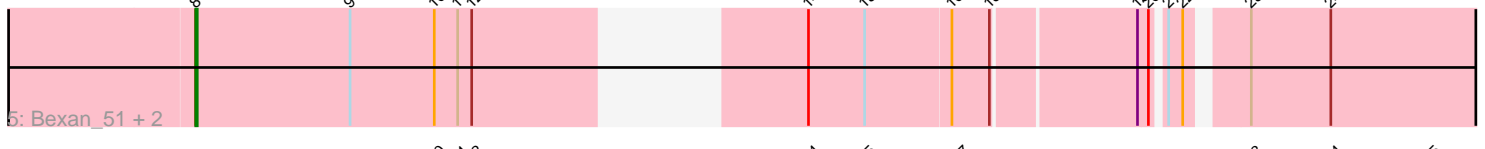
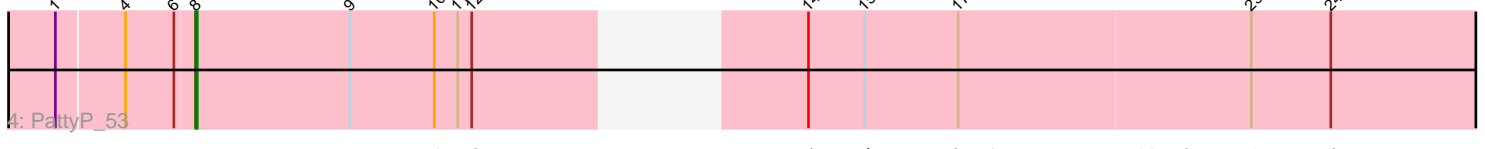
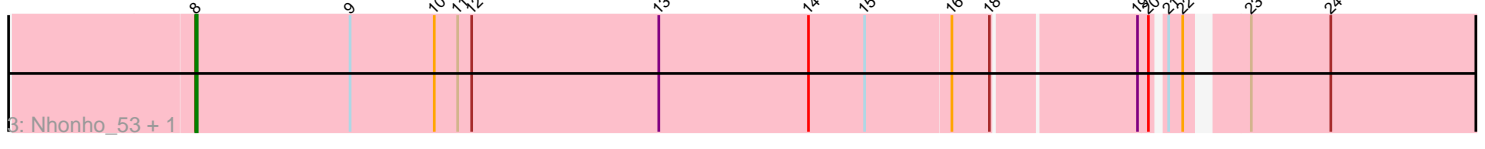
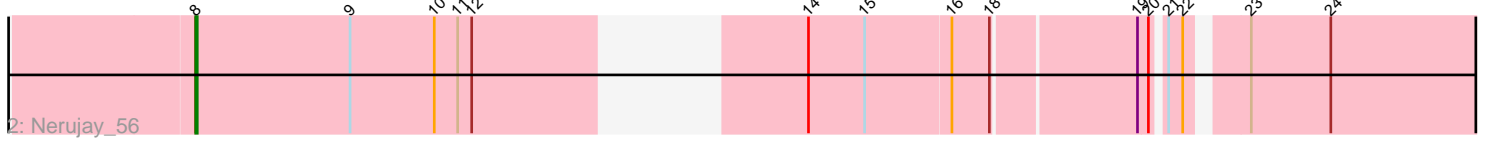
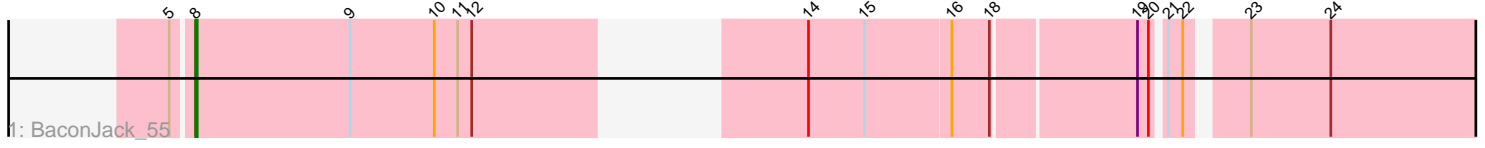


Pham 163090



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 163090 Report

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

Pham number 163090 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : BaconJack_55
- Track 2 : Nerujay_56
- Track 3 : Nhonho_53, Hope4ever_55
- Track 4 : PattyP_53
- Track 5 : Bexan_51, StrongArm_52, KBG_54
- Track 6 : BillKnuckles_53
- Track 7 : Doom_52
- Track 8 : QTRlifeCrisis_56
- Track 9 : Jorgensen_54
- Track 10 : Lopton_53
- Track 11 : CactusRose_50

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 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaconJack_55, Bexan_51, BillKnuckles_53, Doom_52, Hope4ever_55, Jorgensen_54, KBG_54, Lopton_53, Nerujay_56, Nhonho_53, PattyP_53, StrongArm_52,

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

-

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

- CactusRose_50, QTRlifeCrisis_56,

Summary by start number:

Start 7:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: CactusRose_50 (A1), QTRlifeCrisis_56 (A1),

Start 8:

- Found in 12 of 14 (85.7%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaconJack_55 (A1), Bexan_51 (A1), BillKnuckles_53 (A1), Doom_52 (A1), Hope4ever_55 (A1), Jorgensen_54 (A1), KBG_54 (A1), Lopton_53 (A1), Nerujay_56 (A1), Nhonho_53 (A1), PattyP_53 (A1), StrongArm_52 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 1 time for cluster A1.
- Start number 8 was manually annotated 12 times for cluster A1.

Gene Information:

Gene: BaconJack_55 Start: 39964, Stop: 39221, Start Num: 8

Candidate Starts for BaconJack_55:

(5, 39976), (Start: 8 @39964 has 12 MA's), (9, 39865), (10, 39811), (11, 39796), (12, 39787), (14, 39652), (15, 39616), (16, 39562), (18, 39538), (19, 39451), (20, 39445), (21, 39439), (22, 39430), (23, 39400), (24, 39349),

Gene: Bexan_51 Start: 39240, Stop: 38497, Start Num: 8

Candidate Starts for Bexan_51:

(Start: 8 @39240 has 12 MA's), (9, 39141), (10, 39087), (11, 39072), (12, 39063), (14, 38928), (15, 38892), (16, 38838), (18, 38814), (19, 38727), (20, 38721), (21, 38715), (22, 38706), (23, 38676), (24, 38625),

Gene: BillKnuckles_53 Start: 39161, Stop: 38388, Start Num: 8

Candidate Starts for BillKnuckles_53:

(Start: 8 @39161 has 12 MA's), (9, 39062), (10, 39008), (11, 38993), (12, 38984), (14, 38849), (15, 38813), (17, 38753), (23, 38567), (24, 38516), (25, 38453),

Gene: CactusRose_50 Start: 37728, Stop: 36982, Start Num: 7

Candidate Starts for CactusRose_50:

(2, 37779), (Start: 7 @37728 has 1 MA's), (9, 37626), (10, 37572), (11, 37557), (12, 37548), (14, 37413), (15, 37377), (16, 37323), (18, 37299), (19, 37212), (20, 37206), (21, 37200), (22, 37191), (23, 37161), (24, 37110), (25, 37047),

Gene: Doom_52 Start: 38537, Stop: 37764, Start Num: 8

Candidate Starts for Doom_52:

(Start: 8 @38537 has 12 MA's), (9, 38438), (10, 38384), (11, 38369), (12, 38360), (14, 38225), (15, 38189), (17, 38129), (23, 37943), (24, 37892),

Gene: Hope4ever_55 Start: 39237, Stop: 38413, Start Num: 8

Candidate Starts for Hope4ever_55:

(Start: 8 @39237 has 12 MA's), (9, 39138), (10, 39084), (11, 39069), (12, 39060), (13, 38940), (14, 38844), (15, 38808), (16, 38754), (18, 38730), (19, 38643), (20, 38637), (21, 38631), (22, 38622), (23, 38592), (24, 38541),

Gene: Jorgensen_54 Start: 38562, Stop: 37738, Start Num: 8

Candidate Starts for Jorgensen_54:

(Start: 8 @38562 has 12 MA's), (9, 38463), (10, 38409), (11, 38394), (12, 38385), (13, 38265), (14, 38169), (15, 38133), (16, 38079), (18, 38055), (19, 37968), (20, 37962), (21, 37956), (22, 37947), (23, 37917), (24, 37866),

Gene: KBG_54 Start: 40472, Stop: 39729, Start Num: 8

Candidate Starts for KBG_54:

(Start: 8 @40472 has 12 MA's), (9, 40373), (10, 40319), (11, 40304), (12, 40295), (14, 40160), (15, 40124), (16, 40070), (18, 40046), (19, 39959), (20, 39953), (21, 39947), (22, 39938), (23, 39908), (24, 39857),

Gene: Lopton_53 Start: 40447, Stop: 39704, Start Num: 8

Candidate Starts for Lopton_53:

(3, 40489), (5, 40459), (Start: 8 @40447 has 12 MA's), (9, 40348), (10, 40294), (11, 40279), (12, 40270), (14, 40135), (15, 40099), (16, 40045), (18, 40021), (19, 39934), (20, 39928), (21, 39922), (22, 39913), (23, 39883), (24, 39832), (25, 39769),

Gene: Nerujay_56 Start: 39287, Stop: 38544, Start Num: 8

Candidate Starts for Nerujay_56:

(Start: 8 @39287 has 12 MA's), (9, 39188), (10, 39134), (11, 39119), (12, 39110), (14, 38975), (15, 38939), (16, 38885), (18, 38861), (19, 38774), (20, 38768), (21, 38762), (22, 38753), (23, 38723), (24, 38672),

Gene: Nhonho_53 Start: 39633, Stop: 38809, Start Num: 8

Candidate Starts for Nhonho_53:

(Start: 8 @39633 has 12 MA's), (9, 39534), (10, 39480), (11, 39465), (12, 39456), (13, 39336), (14, 39240), (15, 39204), (16, 39150), (18, 39126), (19, 39039), (20, 39033), (21, 39027), (22, 39018), (23, 38988), (24, 38937),

Gene: PattyP_53 Start: 38837, Stop: 38064, Start Num: 8

Candidate Starts for PattyP_53:

(1, 38921), (4, 38879), (6, 38849), (Start: 8 @38837 has 12 MA's), (9, 38738), (10, 38684), (11, 38669), (12, 38660), (14, 38525), (15, 38489), (17, 38429), (23, 38243), (24, 38192),

Gene: QTRlifeCrisis_56 Start: 38670, Stop: 37924, Start Num: 7

Candidate Starts for QTRlifeCrisis_56:

(2, 38721), (Start: 7 @38670 has 1 MA's), (9, 38568), (10, 38514), (11, 38499), (12, 38490), (14, 38355), (15, 38319), (16, 38265), (18, 38241), (19, 38154), (20, 38148), (21, 38142), (22, 38133), (23, 38103), (24, 38052),

Gene: StrongArm_52 Start: 39368, Stop: 38625, Start Num: 8

Candidate Starts for StrongArm_52:

(Start: 8 @39368 has 12 MA's), (9, 39269), (10, 39215), (11, 39200), (12, 39191), (14, 39056), (15, 39020), (16, 38966), (18, 38942), (19, 38855), (20, 38849), (21, 38843), (22, 38834), (23, 38804), (24, 38753),