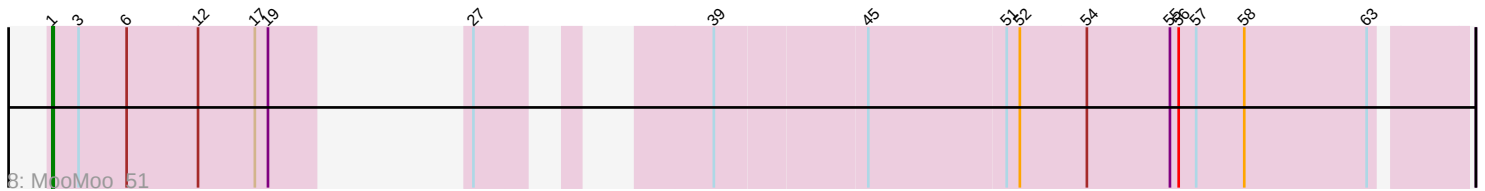
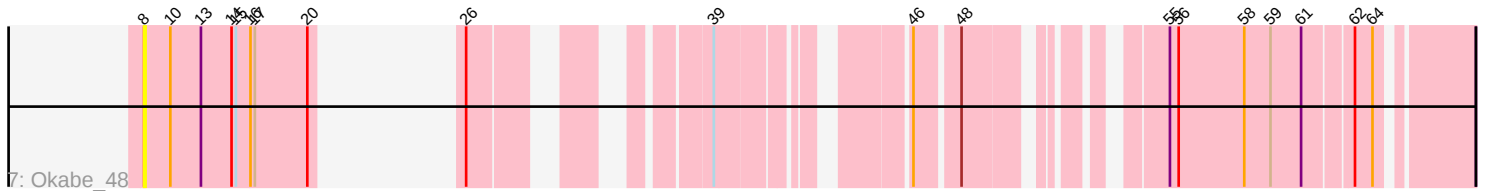
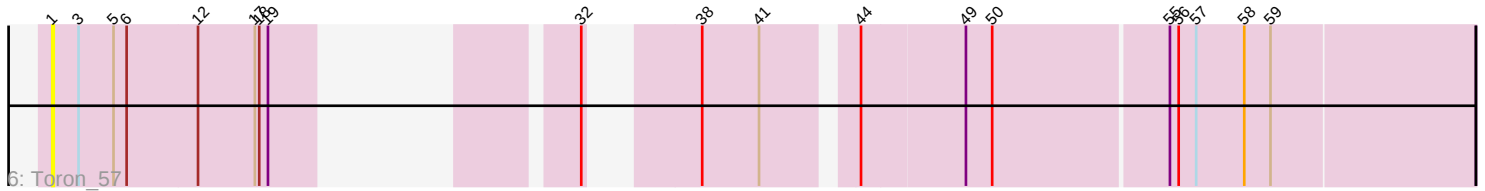
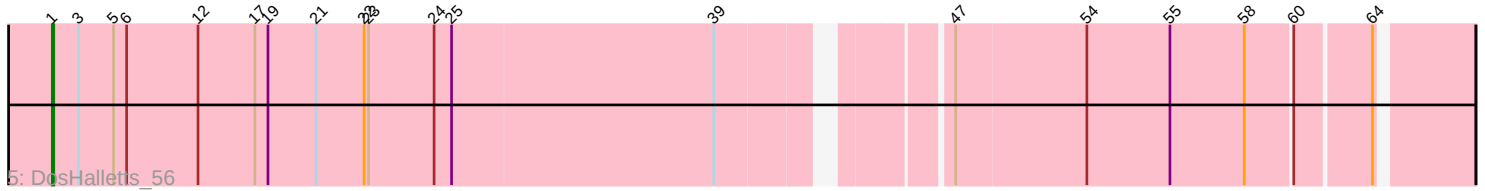
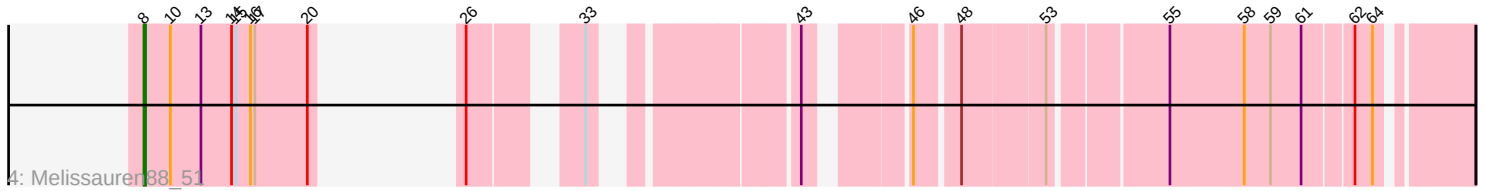
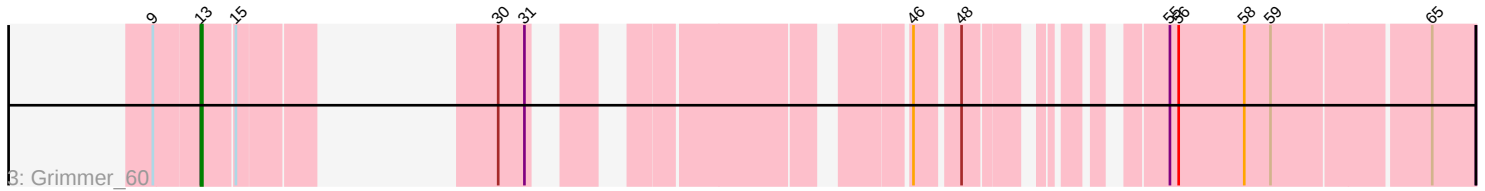
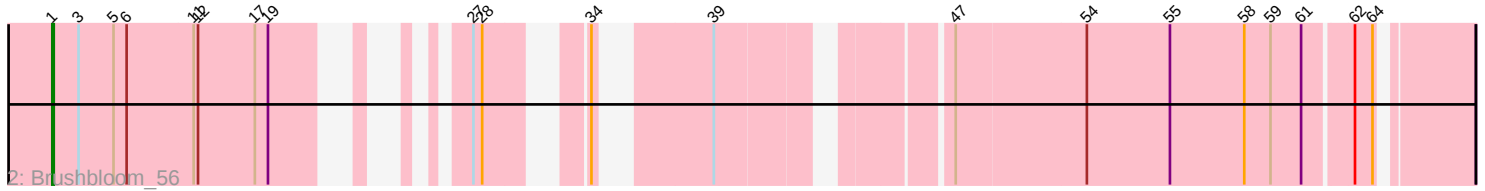
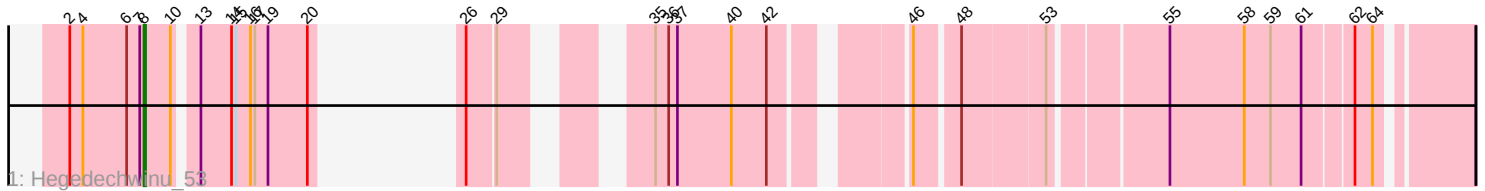


Pham 331579



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 331579 Report

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

Pham number 331579 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hegedechwinu_53
- Track 2 : Brushbloom_56
- Track 3 : Grimmer_60
- Track 4 : Melissauren88_51
- Track 5 : DosHalletts_56
- Track 6 : Toron_57
- Track 7 : Okabe_48
- Track 8 : MooMoo_51

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

Genes that call this "Most Annotated" start:

- Brushbloom_56, DosHalletts_56, MooMoo_51, Toron_57,

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

•

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

- Grimmer_60, Hegedechwinu_53, Melissauren88_51, Okabe_48,

Summary by start number:

Start 1:

- Found in 4 of 8 (50.0%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brushbloom_56 (F1), DosHalletts_56 (F1), MooMoo_51 (singleton), Toron_57 (F6),

Start 8:

- Found in 3 of 8 (37.5%) of genes in pham

- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hegedechwinu_53 (F1), Melissauren88_51 (F1), Okabe_48 (F8),

Start 13:

- Found in 4 of 8 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Grimmer_60 (F1),

Summary by clusters:

There are 4 clusters represented in this pham: F8, F1, singleton, F6,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 2 times for cluster F1.
- Start number 8 was manually annotated 2 times for cluster F1.
- Start number 13 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: Brushbloom_56 Start: 38072, Stop: 38854, Start Num: 1

Candidate Starts for Brushbloom_56:

(Start: 1 @38072 has 3 MA's), (3, 38090), (5, 38114), (6, 38123), (11, 38168), (12, 38171), (17, 38210), (19, 38219), (27, 38285), (28, 38291), (34, 38336), (39, 38393), (47, 38522), (54, 38609), (55, 38666), (58, 38717), (59, 38735), (61, 38756), (62, 38786), (64, 38798),

Gene: DosHalletts_56 Start: 38883, Stop: 39794, Start Num: 1

Candidate Starts for DosHalletts_56:

(Start: 1 @38883 has 3 MA's), (3, 38901), (5, 38925), (6, 38934), (12, 38982), (17, 39021), (19, 39030), (21, 39063), (22, 39096), (23, 39099), (24, 39144), (25, 39156), (39, 39333), (47, 39462), (54, 39549), (55, 39606), (58, 39657), (60, 39687), (64, 39735),

Gene: Grimmer_60 Start: 38931, Stop: 39560, Start Num: 13

Candidate Starts for Grimmer_60:

(9, 38901), (Start: 13 @38931 has 1 MA's), (15, 38952), (30, 39030), (31, 39048), (46, 39240), (48, 39267), (55, 39360), (56, 39366), (58, 39411), (59, 39429), (65, 39531),

Gene: Hegedechwinu_53 Start: 35958, Stop: 36644, Start Num: 8

Candidate Starts for Hegedechwinu_53:

(2, 35907), (4, 35916), (6, 35946), (7, 35955), (Start: 8 @35958 has 2 MA's), (10, 35976), (Start: 13 @35988 has 1 MA's), (14, 36009), (15, 36012), (16, 36021), (17, 36024), (19, 36033), (20, 36060), (26, 36072), (29, 36090), (35, 36156), (36, 36165), (37, 36171), (40, 36207), (42, 36231), (46, 36303), (48, 36330), (53, 36384), (55, 36456), (58, 36507), (59, 36525), (61, 36546), (62, 36576), (64, 36588),

Gene: Melissauren88_51 Start: 36531, Stop: 37214, Start Num: 8

Candidate Starts for Melissauren88_51:

(Start: 8 @36531 has 2 MA's), (10, 36549), (Start: 13 @36570 has 1 MA's), (14, 36591), (15, 36594), (16, 36603), (17, 36606), (20, 36642), (26, 36654), (33, 36711), (43, 36819), (46, 36873), (48, 36900), (53, 36954), (55, 37026), (58, 37077), (59, 37095), (61, 37116), (62, 37146), (64, 37158),

Gene: MooMoo_51 Start: 36852, Stop: 37634, Start Num: 1

Candidate Starts for MooMoo_51:

(Start: 1 @36852 has 3 MA's), (3, 36870), (6, 36903), (12, 36951), (17, 36990), (19, 36999), (27, 37038), (39, 37140), (45, 37239), (51, 37332), (52, 37341), (54, 37386), (55, 37443), (56, 37449), (57, 37461), (58, 37494), (63, 37578),

Gene: Okabe_48 Start: 33507, Stop: 34151, Start Num: 8

Candidate Starts for Okabe_48:

(Start: 8 @33507 has 2 MA's), (10, 33525), (Start: 13 @33546 has 1 MA's), (14, 33567), (15, 33570), (16, 33579), (17, 33582), (20, 33618), (26, 33630), (39, 33741), (46, 33840), (48, 33867), (55, 33963), (56, 33969), (58, 34014), (59, 34032), (61, 34053), (62, 34083), (64, 34095),

Gene: Toron_57 Start: 39017, Stop: 39823, Start Num: 1

Candidate Starts for Toron_57:

(Start: 1 @39017 has 3 MA's), (3, 39035), (5, 39059), (6, 39068), (12, 39116), (17, 39155), (18, 39158), (19, 39164), (32, 39272), (38, 39320), (41, 39359), (44, 39413), (49, 39482), (50, 39500), (55, 39617), (56, 39623), (57, 39635), (58, 39668), (59, 39686),