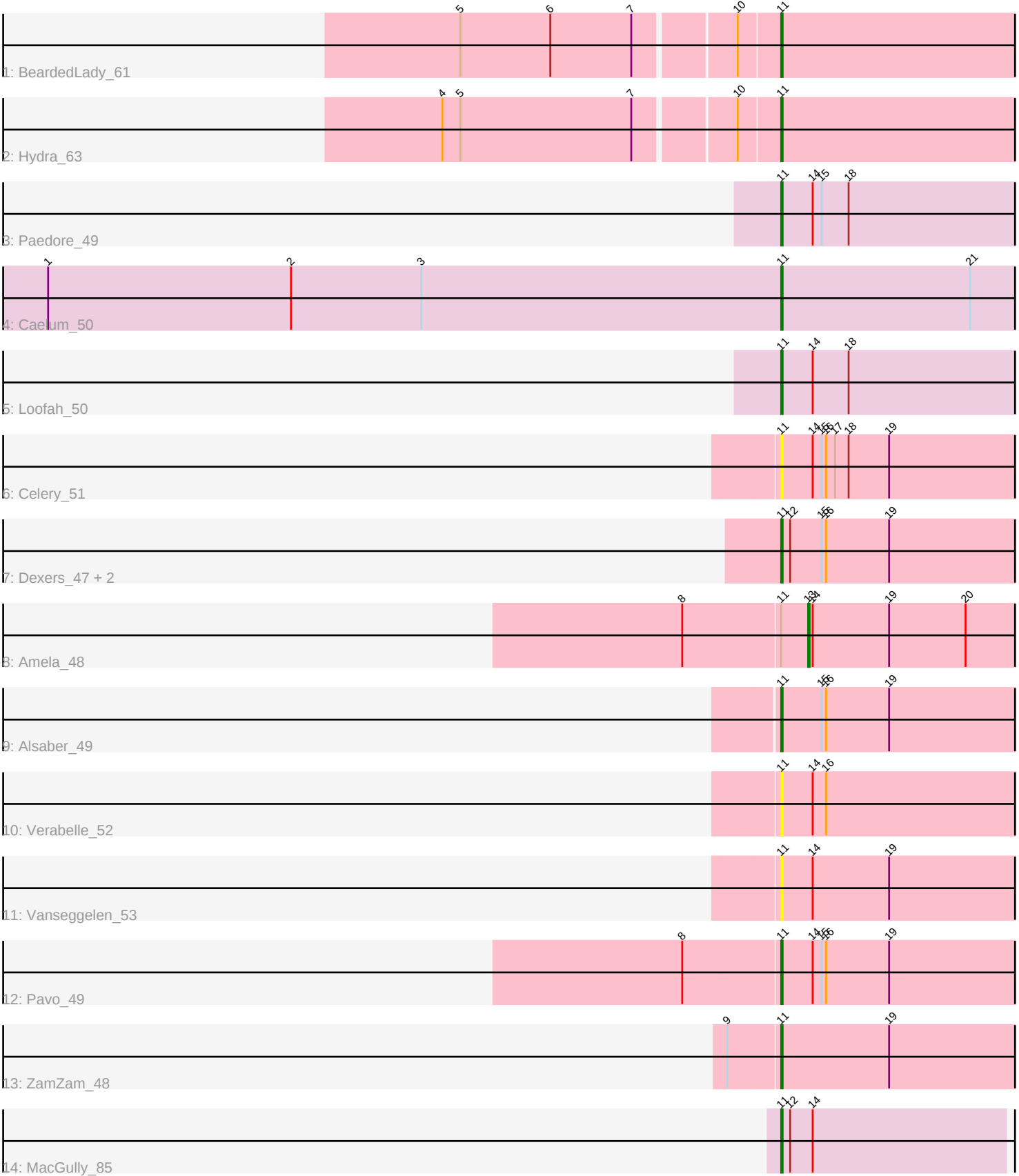


Pham 309456



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 309456 Report

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

Pham number 309456 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BeardedLady_61
- Track 2 : Hydra_63
- Track 3 : Paedore_49
- Track 4 : Caelum_50
- Track 5 : Loofah_50
- Track 6 : Celery_51
- Track 7 : Dexers_47, Sudan_48, Kaine_48
- Track 8 : Amela_48
- Track 9 : Alsaber_49
- Track 10 : Verabelle_52
- Track 11 : Vanseggelen_53
- Track 12 : Pavo_49
- Track 13 : ZamZam_48
- Track 14 : MacGully_85

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

The start number called the most often in the published annotations is 11, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alsaber_49, BeardedLady_61, Caelum_50, Celery_51, Dexers_47, Hydra_63, Kaine_48, Loofah_50, MacGully_85, Paedore_49, Pavo_49, Sudan_48, Vanseggelen_53, Verabelle_52, ZamZam_48,

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

- Amela_48,

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

-

Summary by start number:

Start 11:

- Found in 16 of 16 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Alsaber_49 (BD3), BeardedLady_61 (BD1), Caelum_50 (BD2), Celery_51 (BD3), Dexers_47 (BD3), Hydra_63 (BD1), Kaine_48 (BD3), Loofah_50 (BD2), MacGully_85 (CR7), Paedore_49 (BD2), Pavo_49 (BD3), Sudan_48 (BD3), Vanseggelen_53 (BD3), Verabelle_52 (BD3), ZamZam_48 (BD3),

Start 13:

- Found in 1 of 16 (6.2%) 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: Amela_48 (BD3),

Summary by clusters:

There are 4 clusters represented in this pham: BD1, CR7, BD3, BD2,

Info for manual annotations of cluster BD1:

- Start number 11 was manually annotated 2 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 11 was manually annotated 3 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 11 was manually annotated 6 times for cluster BD3.
- Start number 13 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster CR7:

- Start number 11 was manually annotated 1 time for cluster CR7.

Gene Information:

Gene: Alsaber_49 Start: 35445, Stop: 35612, Start Num: 11

Candidate Starts for Alsaber_49:

(Start: 11 @35445 has 12 MA's), (15, 35472), (16, 35475), (19, 35517),

Gene: Amela_48 Start: 36312, Stop: 36461, Start Num: 13

Candidate Starts for Amela_48:

(8, 36231), (Start: 11 @36294 has 12 MA's), (Start: 13 @36312 has 1 MA's), (14, 36315), (19, 36366), (20, 36417),

Gene: BeardedLady_61 Start: 43322, Stop: 43155, Start Num: 11

Candidate Starts for BeardedLady_61:

(5, 43526), (6, 43466), (7, 43412), (10, 43349), (Start: 11 @43322 has 12 MA's),

Gene: Caelum_50 Start: 34878, Stop: 35045, Start Num: 11

Candidate Starts for Caelum_50:

(1, 34389), (2, 34551), (3, 34638), (Start: 11 @34878 has 12 MA's), (21, 35004),

Gene: Celery_51 Start: 35409, Stop: 35576, Start Num: 11
Candidate Starts for Celery_51:
(Start: 11 @35409 has 12 MA's), (14, 35430), (15, 35436), (16, 35439), (17, 35445), (18, 35454), (19, 35481),

Gene: Dexers_47 Start: 35350, Stop: 35517, Start Num: 11
Candidate Starts for Dexers_47:
(Start: 11 @35350 has 12 MA's), (12, 35356), (15, 35377), (16, 35380), (19, 35422),

Gene: Hydra_63 Start: 44130, Stop: 43963, Start Num: 11
Candidate Starts for Hydra_63:
(4, 44346), (5, 44334), (7, 44220), (10, 44157), (Start: 11 @44130 has 12 MA's),

Gene: Kaine_48 Start: 35156, Stop: 35323, Start Num: 11
Candidate Starts for Kaine_48:
(Start: 11 @35156 has 12 MA's), (12, 35162), (15, 35183), (16, 35186), (19, 35228),

Gene: Loofah_50 Start: 35392, Stop: 35559, Start Num: 11
Candidate Starts for Loofah_50:
(Start: 11 @35392 has 12 MA's), (14, 35413), (18, 35437),

Gene: MacGully_85 Start: 58267, Stop: 58118, Start Num: 11
Candidate Starts for MacGully_85:
(Start: 11 @58267 has 12 MA's), (12, 58261), (14, 58246),

Gene: Paedore_49 Start: 35377, Stop: 35544, Start Num: 11
Candidate Starts for Paedore_49:
(Start: 11 @35377 has 12 MA's), (14, 35398), (15, 35404), (18, 35422),

Gene: Pavo_49 Start: 35589, Stop: 35756, Start Num: 11
Candidate Starts for Pavo_49:
(8, 35526), (Start: 11 @35589 has 12 MA's), (14, 35610), (15, 35616), (16, 35619), (19, 35661),

Gene: Sudan_48 Start: 35443, Stop: 35610, Start Num: 11
Candidate Starts for Sudan_48:
(Start: 11 @35443 has 12 MA's), (12, 35449), (15, 35470), (16, 35473), (19, 35515),

Gene: Vanseggelen_53 Start: 35110, Stop: 35277, Start Num: 11
Candidate Starts for Vanseggelen_53:
(Start: 11 @35110 has 12 MA's), (14, 35131), (19, 35182),

Gene: Verabelle_52 Start: 35627, Stop: 35794, Start Num: 11
Candidate Starts for Verabelle_52:
(Start: 11 @35627 has 12 MA's), (14, 35648), (16, 35657),

Gene: ZamZam_48 Start: 35493, Stop: 35660, Start Num: 11
Candidate Starts for ZamZam_48:
(9, 35460), (Start: 11 @35493 has 12 MA's), (19, 35565),