# Pham 216866



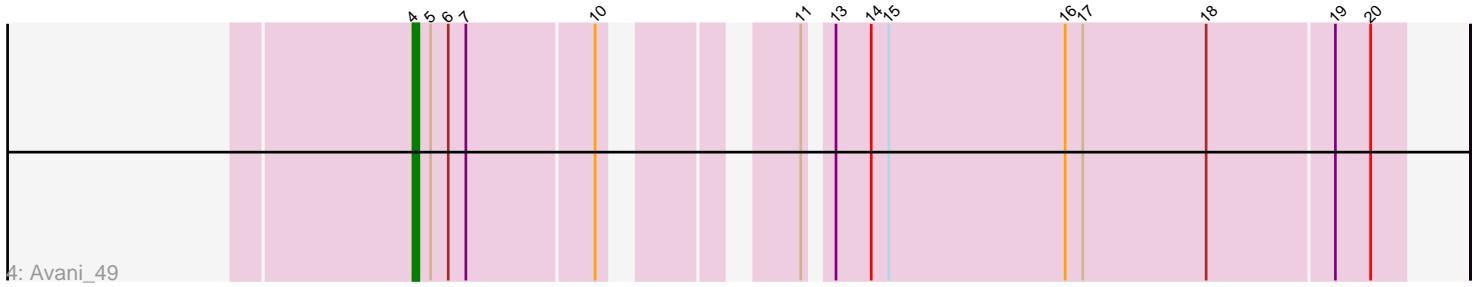1: Chevrolet_49 + 1
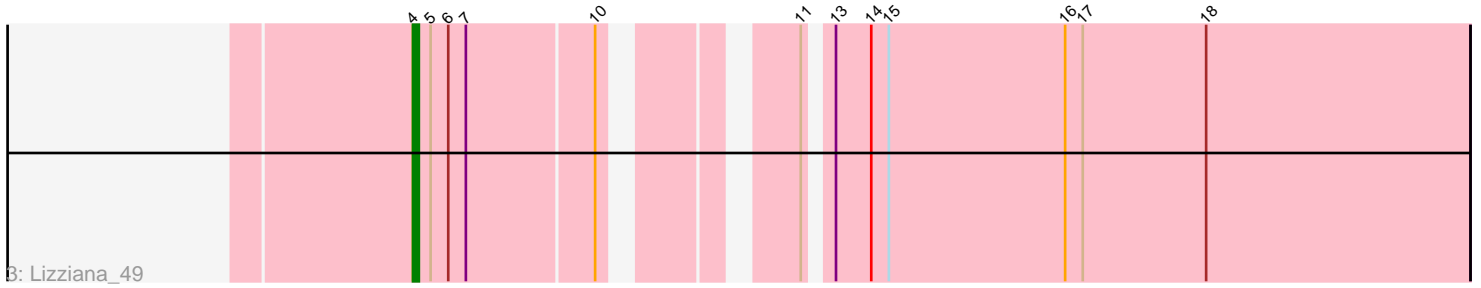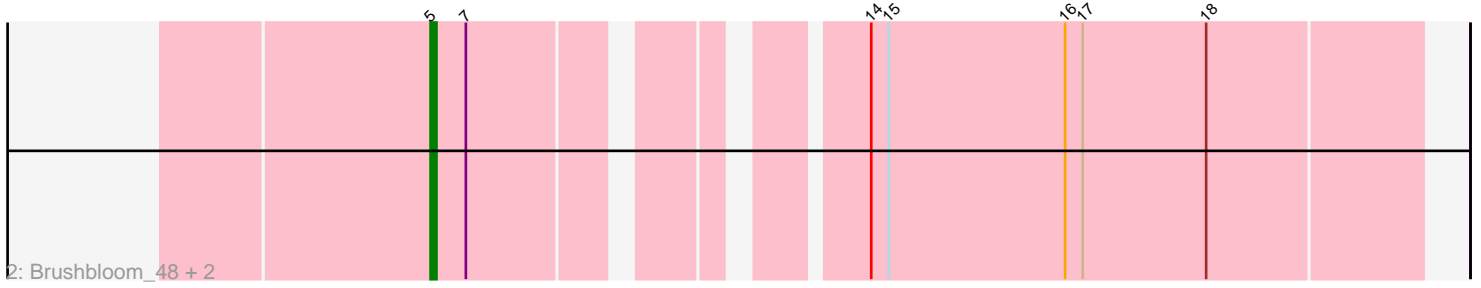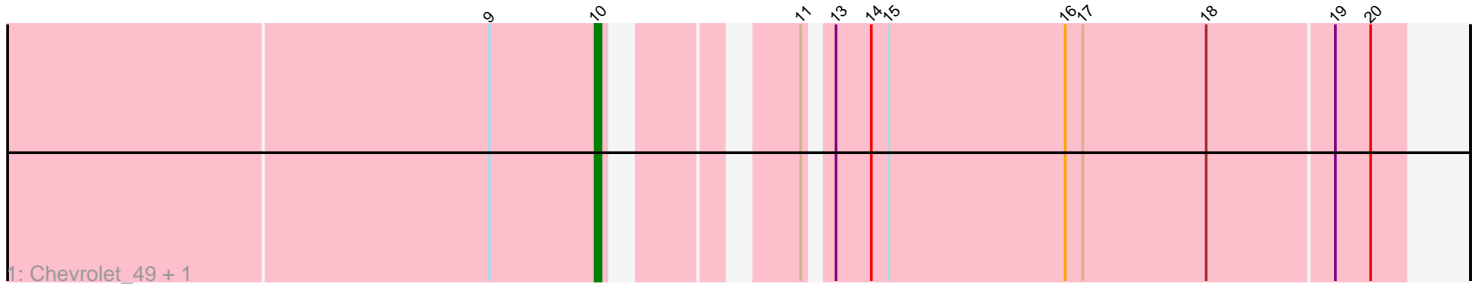
2: Brushbloom_48 + 2

3: Lizziana_49

4: Avani_49

5: DirkDirk_31

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 216866 Report

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

Pham number 216866 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Chevrolet_49, ArcusAngelus_46
• Track 2 : Brushbloom_48, Mutaforma13_44, PhesterPhotato_43
• Track 3 : Lizziana_49
• Track 4 : Avani_49
• Track 5 : DirkDirk_31


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

The start number called the most often in the published annotations is 5, it was called in 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Brushbloom_48, Mutaforma13_44, PhesterPhotato_43,

Genes that have the "Most Annotated" start but do not call it:
• Avani_49, Lizziana_49,

Genes that do not have the "Most Annotated" start:
• ArcusAngelus_46, Chevrolet_49, DirkDirk_31,

**Summary by start number:**

Start 4:
• Found in 2 of 8 ( 25.0% ) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Avani_49 (F2), Lizziana_49 (F1),

Start 5:
• Found in 5 of 8 ( 62.5% ) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Brushbloom_48 (F1), Mutaforma13_44 (F1), PhesterPhotato_43 (F1),

Start 8:
• Found in 1 of 8 ( 12.5% ) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DirkDirk_31 (L1),

Start 10:
• Found in 4 of 8 ( 50.0% ) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ArcusAngelus_46 (F1), Chevrolet_49 (F1),

**Summary by clusters:**

There are 3 clusters represented in this pham: F1, F2, L1,

Info for manual annotations of cluster F1:
•Start number 4 was manually annotated 1 time for cluster F1.
•Start number 5 was manually annotated 2 times for cluster F1.
•Start number 10 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 4 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster L1:
•Start number 8 was manually annotated 1 time for cluster L1.


*Gene Information:*
Gene: ArcusAngelus_46 Start: 33985, Stop: 33863, Start Num: 10
Candidate Starts for ArcusAngelus_46:
(9, 34003), (Start: 10 @33985 has 2 MA's), (11, 33961), (13, 33958), (14, 33952), (15, 33949), (16, 33919), (17, 33916), (18, 33895), (19, 33874), (20, 33868),

Gene: Avani_49 Start: 31816, Stop: 31664, Start Num: 4
Candidate Starts for Avani_49:
(Start: 4 @31816 has 2 MA's), (Start: 5 @31813 has 2 MA's), (6, 31810), (7, 31807), (Start: 10 @31786 has 2 MA's), (11, 31762), (13, 31759), (14, 31753), (15, 31750), (16, 31720), (17, 31717), (18, 31696), (19, 31675), (20, 31669),

Gene: Brushbloom_48 Start: 32635, Stop: 32483, Start Num: 5
Candidate Starts for Brushbloom_48:
(Start: 5 @32635 has 2 MA's), (7, 32629), (14, 32575), (15, 32572), (16, 32542), (17, 32539), (18, 32518),

Gene: Chevrolet_49 Start: 33986, Stop: 33864, Start Num: 10
Candidate Starts for Chevrolet_49:
(9, 34004), (Start: 10 @33986 has 2 MA's), (11, 33962), (13, 33959), (14, 33953), (15, 33950), (16, 33920), (17, 33917), (18, 33896), (19, 33875), (20, 33869),

Gene: DirkDirk_31 Start: 28183, Stop: 28028, Start Num: 8
Candidate Starts for DirkDirk_31:
(1, 28234), (2, 28222), (3, 28219), (Start: 8 @28183 has 1 MA's), (12, 28126), (16, 28084),

Gene: Lizziana_49 Start: 34010, Stop: 33846, Start Num: 4
Candidate Starts for Lizziana_49:
(Start: 4 @34010 has 2 MA's), (Start: 5 @34007 has 2 MA's), (6, 34004), (7, 34001), (Start: 10 @33980 has 2 MA's), (11, 33956), (13, 33953), (14, 33947), (15, 33944), (16, 33914), (17, 33911), (18, 33890),

Gene: Mutaforma13_44 Start: 32959, Stop: 32807, Start Num: 5
Candidate Starts for Mutaforma13_44:
(Start: 5 @32959 has 2 MA's), (7, 32953), (14, 32899), (15, 32896), (16, 32866), (17, 32863), (18, 32842),

Gene: PhesterPhotato_43 Start: 32683, Stop: 32531, Start Num: 5
Candidate Starts for PhesterPhotato_43:
(Start: 5 @32683 has 2 MA's), (7, 32677), (14, 32623), (15, 32620), (16, 32590), (17, 32587), (18, 32566),