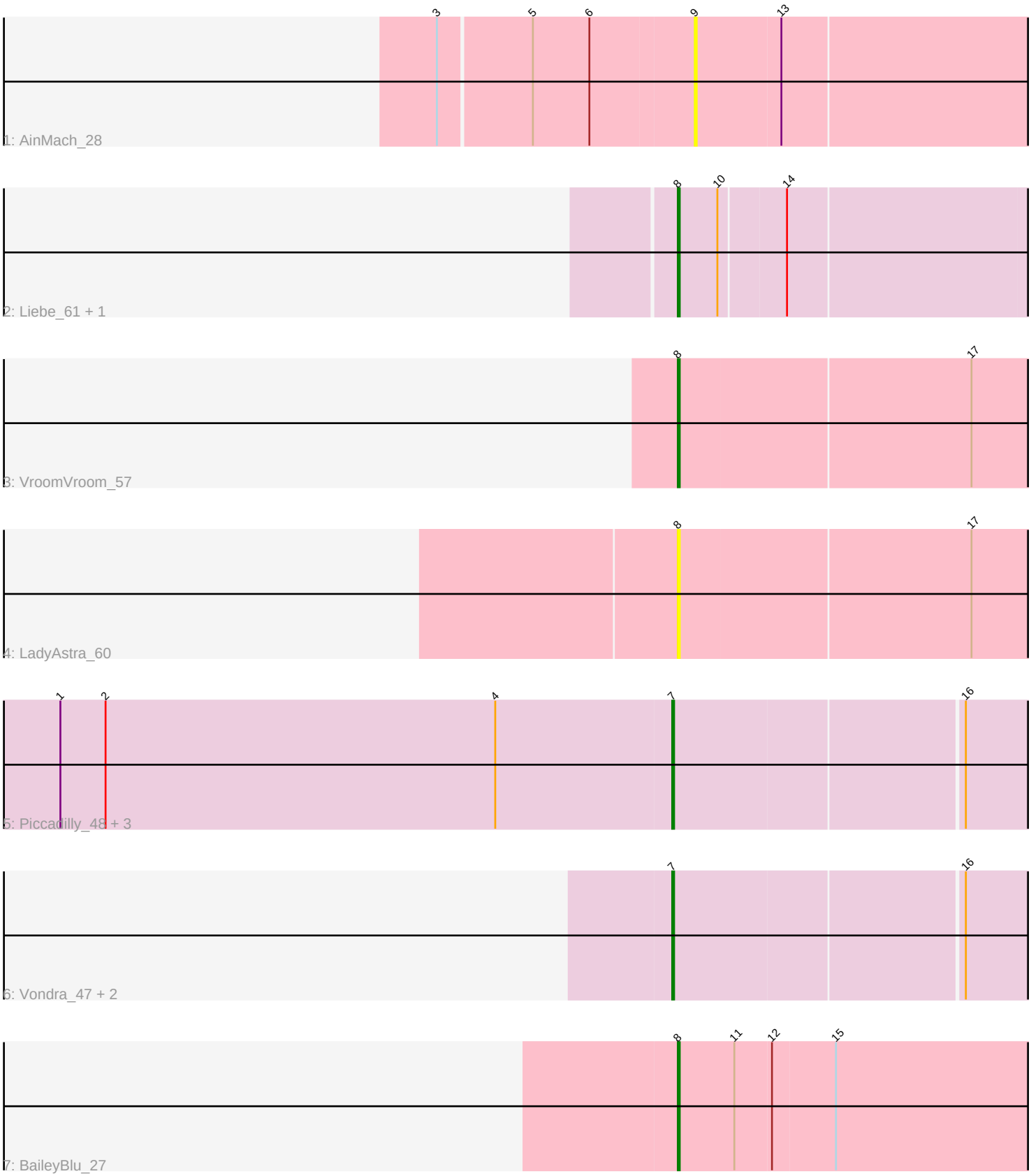
# Pham 225014


3
5
6
9
13
1: AinMach_28
8
10
14
2: Liebe_61 + 1
8
17
3: VroomVroom_57
8
17
4: LadyAstra_60
1
2
4
7
16
5: Piccadilly_48 + 3
7
16
6: Vondra_47 + 2
8
11
12
15
7: BaileyBlu_27

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 225014 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225014 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : AinMach_28
• Track 2 : Liebe_61, Maureen_61
• Track 3 : VroomVroom_57
• Track 4 : LadyAstra_60
• Track 5 : Piccadilly_48, Eklok_48, Cumberbatch_49, Eastland_48
• Track 6 : Vondra_47, Ignacio_47, HFrancette_48
• Track 7 : BaileyBlu_27

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cumberbatch_49, Eastland_48, Eklok_48, HFrancette_48, Ignacio_47, Piccadilly_48, Vondra_47,

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

Genes that do not have the "Most Annotated" start:
• AinMach_28, BaileyBlu_27, LadyAstra_60, Liebe_61, Maureen_61, VroomVroom_57,

**Summary by start number:**

Start 7:
• Found in 7 of 13 ( 53.8% ) of genes in pham
• Manual Annotations of this start: 7 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cumberbatch_49 (BP), Eastland_48 (BP), Eklok_48 (BP), HFrancette_48 (BP), Ignacio_47 (BP), Piccadilly_48 (BP), Vondra_47 (BP),

Start 8:
• Found in 5 of 13 ( 38.5% ) of genes in pham
• Manual Annotations of this start: 4 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_27 (FP), LadyAstra_60 (AZ4), Liebe_61 (AZ2), Maureen_61 (AZ2), VroomVroom_57 (AZ4),

Start 9:
• Found in 1 of 13 ( 7.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AinMach_28 (AZ),

**Summary by clusters:**

There are 5 clusters represented in this pham: FP, AZ4, AZ2, AZ, BP,

Info for manual annotations of cluster AZ2:
•Start number 8 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ4:
•Start number 8 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster BP:
•Start number 7 was manually annotated 7 times for cluster BP.

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

***Gene Information:***

Gene: AinMach_28 Start: 23053, Stop: 23250, Start Num: 9
Candidate Starts for AinMach_28:
(3, 22921), (5, 22969), (6, 22999), (9, 23053), (13, 23098),

Gene: BaileyBlu_27 Start: 21867, Stop: 22073, Start Num: 8
Candidate Starts for BaileyBlu_27:
(Start: 8 @21867 has 4 MA's), (11, 21897), (12, 21915), (15, 21948),

Gene: Cumberbatch_49 Start: 32249, Stop: 32467, Start Num: 7
Candidate Starts for Cumberbatch_49:
(1, 31925), (2, 31949), (4, 32156), (Start: 7 @32249 has 7 MA's), (16, 32399),

Gene: Eastland_48 Start: 32209, Stop: 32427, Start Num: 7
Candidate Starts for Eastland_48:
(1, 31885), (2, 31909), (4, 32116), (Start: 7 @32209 has 7 MA's), (16, 32359),

Gene: Eklok_48 Start: 32008, Stop: 32226, Start Num: 7
Candidate Starts for Eklok_48:
(1, 31684), (2, 31708), (4, 31915), (Start: 7 @32008 has 7 MA's), (16, 32158),

Gene: HFrancette_48 Start: 32550, Stop: 32768, Start Num: 7
Candidate Starts for HFrancette_48:
(Start: 7 @32550 has 7 MA's), (16, 32700),

Gene: Ignacio_47 Start: 32453, Stop: 32671, Start Num: 7
Candidate Starts for Ignacio_47:
(Start: 7 @32453 has 7 MA's), (16, 32603),

Gene: LadyAstra_60 Start: 39510, Stop: 39722, Start Num: 8
Candidate Starts for LadyAstra_60:
(Start: 8 @39510 has 4 MA's), (17, 39663),

Gene: Liebe_61 Start: 42044, Stop: 42256, Start Num: 8
Candidate Starts for Liebe_61:
(Start: 8 @42044 has 4 MA's), (10, 42065), (14, 42098),

Gene: Maureen_61 Start: 42043, Stop: 42255, Start Num: 8
Candidate Starts for Maureen_61:
(Start: 8 @42043 has 4 MA's), (10, 42064), (14, 42097),

Gene: Piccadilly_48 Start: 32208, Stop: 32426, Start Num: 7
Candidate Starts for Piccadilly_48:
(1, 31884), (2, 31908), (4, 32115), (Start: 7 @32208 has 7 MA's), (16, 32358),

Gene: Vondra_47 Start: 31794, Stop: 32012, Start Num: 7
Candidate Starts for Vondra_47:
(Start: 7 @31794 has 7 MA's), (16, 31944),

Gene: VroomVroom_57 Start: 39455, Stop: 39667, Start Num: 8
Candidate Starts for VroomVroom_57:
(Start: 8 @39455 has 4 MA's), (17, 39608),