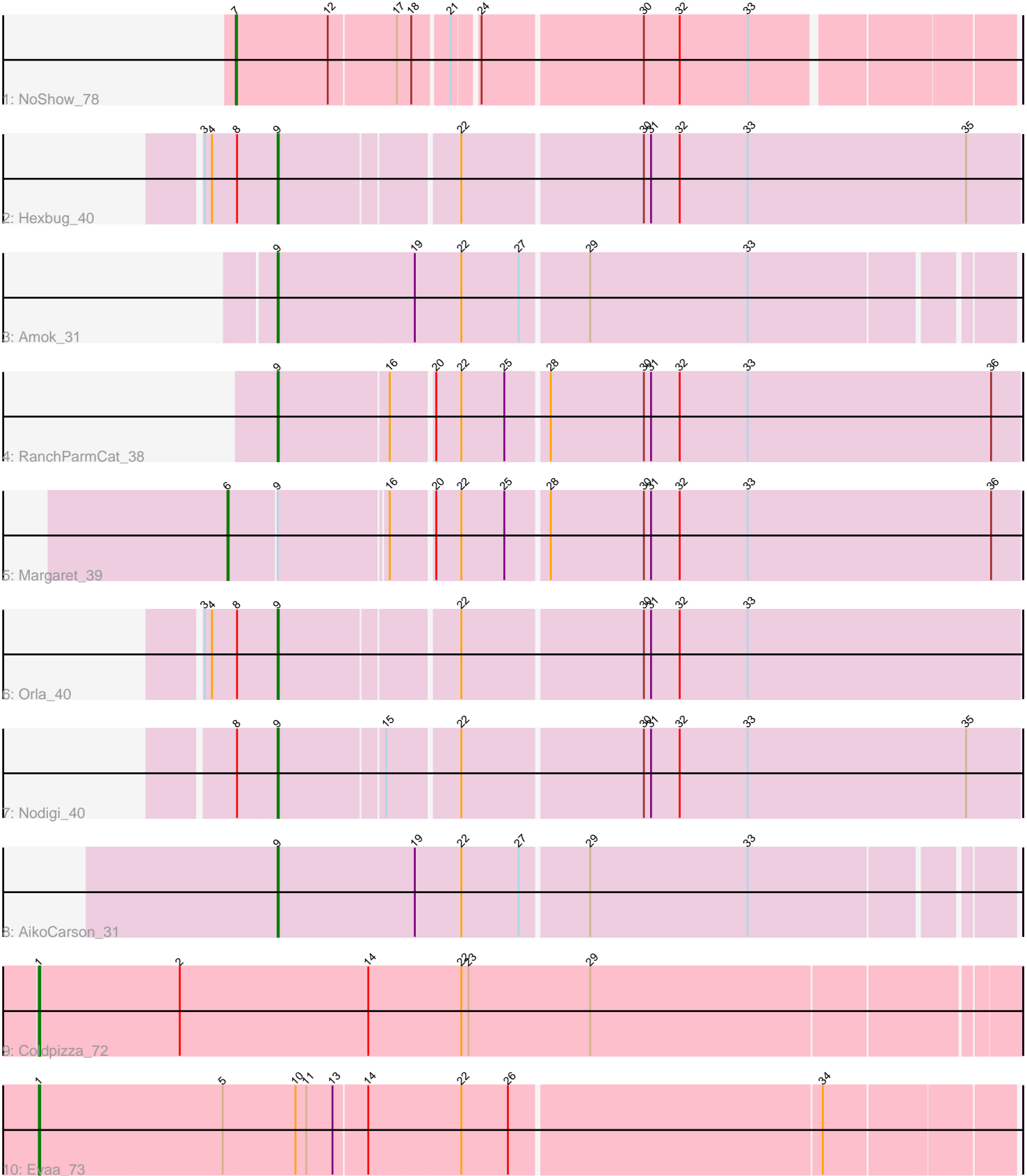# Pham 281109

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 281109 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281109 has 10 members, 0 are drafts.

Phages represented in each track:
• Track 1 : NoShow_78
• Track 2 : Hexbug_40
• Track 3 : Amok_31
• Track 4 : RanchParmCat_38
• Track 5 : Margaret_39
• Track 6 : Orla_40
• Track 7 : Nodigi_40
• Track 8 : AikoCarson_31
• Track 9 : Coldpizza_72
• Track 10 : Evaa_73

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

The start number called the most often in the published annotations is 9, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AikoCarson_31, Amok_31, Hexbug_40, Nodigi_40, Orla_40, RanchParmCat_38,

Genes that have the "Most Annotated" start but do not call it:
• Margaret_39,

Genes that do not have the "Most Annotated" start:
• Coldpizza_72, Evaa_73, NoShow_78,

Summary by start number:

Start 1:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coldpizza_72 (DR), Evaa_73 (DR),

Start 6:

• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Margaret_39 (CT),

Start 7:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_78 (AB),

Start 9:
• Found in 7 of 10 (70.0%) of genes in pham
• Manual Annotations of this start: 6 of 10
• Called 85.7% of time when present
• Phage (with cluster) where this start called: AikoCarson_31 (CT), Amok_31 (CT), Hexbug_40 (CT), Nodigi_40 (CT), Orla_40 (CT), RanchParmCat_38 (CT),

Summary by clusters:

There are 3 clusters represented in this pham: AB, DR, CT,

Info for manual annotations of cluster AB:
•Start number 7 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster CT:
•Start number 6 was manually annotated 1 time for cluster CT.
•Start number 9 was manually annotated 6 times for cluster CT.

Info for manual annotations of cluster DR:
•Start number 1 was manually annotated 2 times for cluster DR.

Gene Information:

Gene: AikoCarson_31 Start: 24720, Stop: 24127, Start Num: 9
Candidate Starts for AikoCarson_31:
(Start: 9 @24720 has 6 MA's), (19, 24606), (22, 24567), (27, 24519), (29, 24465), (33, 24333),

Gene: Amok_31 Start: 24679, Stop: 24086, Start Num: 9
Candidate Starts for Amok_31:
(Start: 9 @24679 has 6 MA's), (19, 24565), (22, 24526), (27, 24478), (29, 24424), (33, 24292),

Gene: Coldpizza_72 Start: 58071, Stop: 57268, Start Num: 1
Candidate Starts for Coldpizza_72:
(Start: 1 @58071 has 2 MA's), (2, 57954), (14, 57798), (22, 57723), (23, 57717), (29, 57615),

Gene: Evaa_73 Start: 55309, Stop: 54518, Start Num: 1
Candidate Starts for Evaa_73:
(Start: 1 @55309 has 2 MA's), (5, 55156), (10, 55096), (11, 55087), (13, 55066), (14, 55039), (22, 54964), (26, 54925), (34, 54670),

Gene: Hexbug_40 Start: 28044, Stop: 27442, Start Num: 9
Candidate Starts for Hexbug_40:
(3, 28101), (4, 28095), (8, 28074), (Start: 9 @28044 has 6 MA's), (22, 27903), (30, 27756), (31, 27750), (32, 27726), (33, 27669), (35, 27486),

Gene: Margaret_39 Start: 27083, Stop: 26442, Start Num: 6
Candidate Starts for Margaret_39:
(Start: 6 @27083 has 1 MA's), (Start: 9 @27044 has 6 MA's), (16, 26957), (20, 26924), (22, 26903), (25, 26867), (28, 26834), (30, 26756), (31, 26750), (32, 26726), (33, 26669), (36, 26465),

Gene: NoShow_78 Start: 51191, Stop: 51799, Start Num: 7
Candidate Starts for NoShow_78:
(Start: 7 @51191 has 1 MA's), (12, 51266), (17, 51320), (18, 51332), (21, 51359), (24, 51377), (30, 51506), (32, 51536), (33, 51593),

Gene: Nodigi_40 Start: 28027, Stop: 27425, Start Num: 9
Candidate Starts for Nodigi_40:
(8, 28057), (Start: 9 @28027 has 6 MA's), (15, 27943), (22, 27886), (30, 27739), (31, 27733), (32, 27709), (33, 27652), (35, 27469),

Gene: Orla_40 Start: 28015, Stop: 27413, Start Num: 9
Candidate Starts for Orla_40:
(3, 28072), (4, 28066), (8, 28045), (Start: 9 @28015 has 6 MA's), (22, 27874), (30, 27727), (31, 27721), (32, 27697), (33, 27640),

Gene: RanchParmCat_38 Start: 27186, Stop: 26581, Start Num: 9
Candidate Starts for RanchParmCat_38:
(Start: 9 @27186 has 6 MA's), (16, 27096), (20, 27063), (22, 27042), (25, 27006), (28, 26973), (30, 26895), (31, 26889), (32, 26865), (33, 26808), (36, 26604),