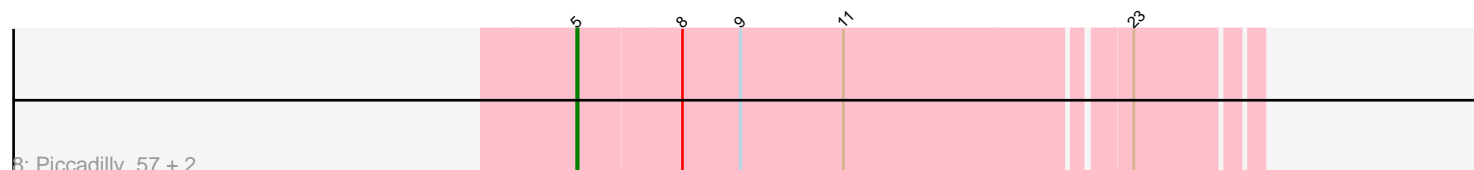
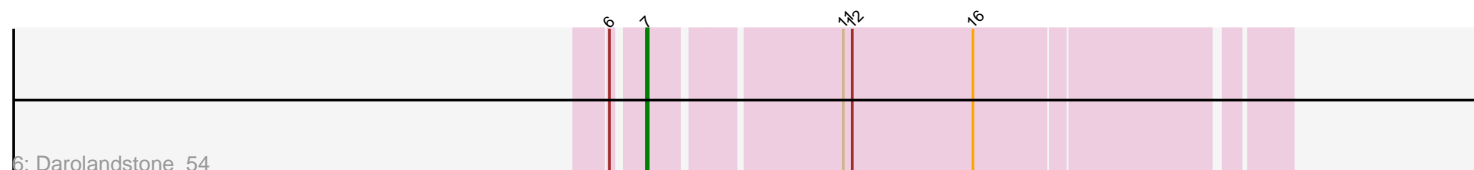
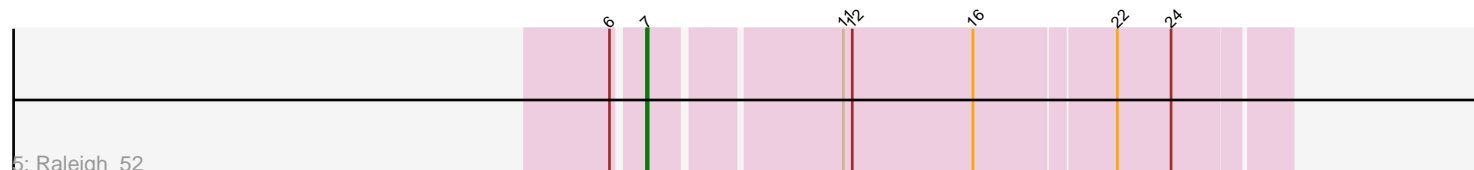
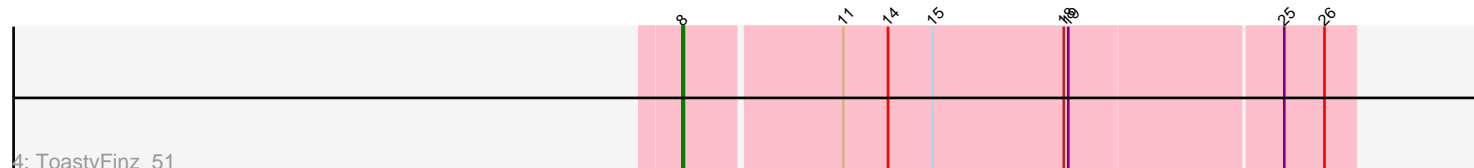
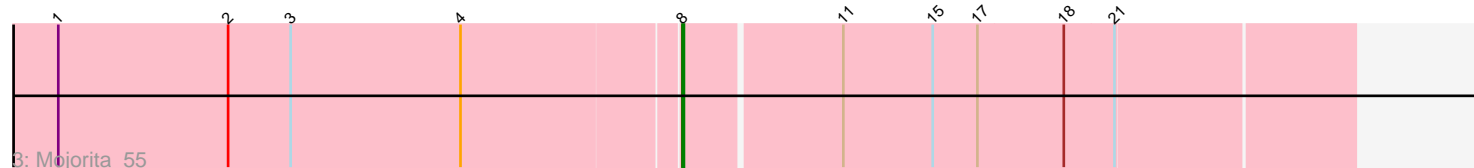
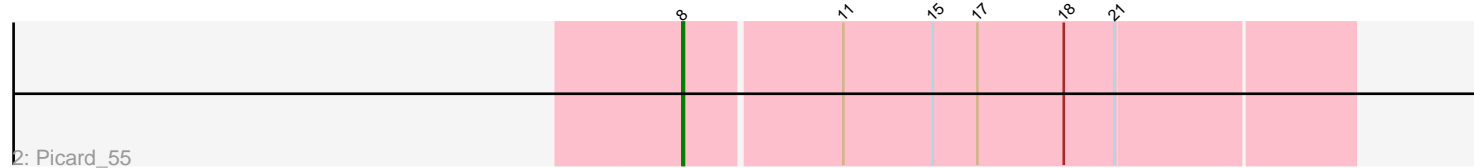
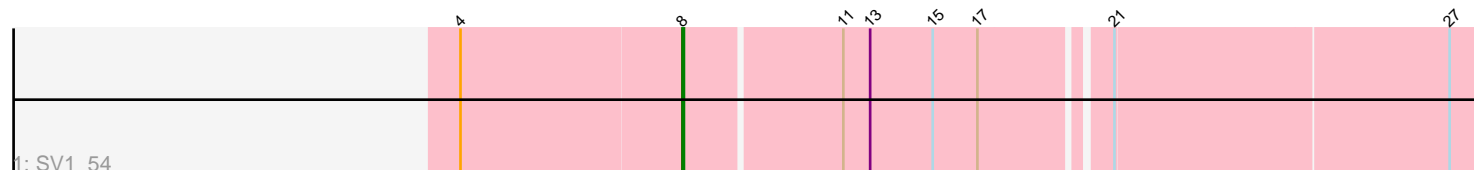


# Pham 278663



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 278663 Report

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

Pham number 278663 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : SV1\_54
- Track 2 : Picard\_55
- Track 3 : Mojarita\_55
- Track 4 : ToastyFinz\_51
- Track 5 : Raleigh\_52
- Track 6 : Darolandstone\_54
- Track 7 : Ignacio\_57, ArizonaGT\_59, Cumberbatch\_58, Vondra\_56, HFrancette\_58, Schlegelian\_56
- Track 8 : Piccadilly\_57, Eastland\_57, FrumpyGal\_59
- Track 9 : AxeJC\_57, Eklok\_57

### ***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 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArizonaGT\_59, AxeJC\_57, Cumberbatch\_58, Eastland\_57, Eklok\_57, FrumpyGal\_59, HFrancette\_58, Ignacio\_57, Piccadilly\_57, Schlegelian\_56, Vondra\_56,

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

- 

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

- Darolandstone\_54, Mojarita\_55, Picard\_55, Raleigh\_52, SV1\_54, ToastyFinz\_51,

### **Summary by start number:**

Start 5:

- Found in 11 of 17 ( 64.7% ) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ArizonaGT\_59 (BP), AxeJC\_57 (BP), Cumberbatch\_58 (BP), Eastland\_57 (BP), Eklok\_57 (BP), FrumpyGal\_59 (BP), HFrancette\_58 (BP), Ignacio\_57 (BP), Piccadilly\_57 (BP), Schlegelian\_56 (BP), Vondra\_56 (BP),

Start 7:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darolandstone\_54 (BC2), Raleigh\_52 (BC2),

Start 8:

- Found in 15 of 17 ( 88.2% ) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 26.7% of time when present
- Phage (with cluster) where this start called: Moajorita\_55 (BC1), Picard\_55 (BC1), SV1\_54 (BC1), ToastyFinz\_51 (BC1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: BP, BC1, BC2,

Info for manual annotations of cluster BC1:

- Start number 8 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 7 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BP:

- Start number 5 was manually annotated 11 times for cluster BP.

### **Gene Information:**

Gene: ArizonaGT\_59 Start: 36449, Stop: 36880, Start Num: 5

Candidate Starts for ArizonaGT\_59:

(Start: 5 @36449 has 11 MA's), (Start: 8 @36515 has 4 MA's), (11, 36623), (20, 36782), (23, 36803),

Gene: AxeJC\_57 Start: 36632, Stop: 37060, Start Num: 5

Candidate Starts for AxeJC\_57:

(Start: 5 @36632 has 11 MA's), (Start: 8 @36698 has 4 MA's), (10, 36797), (11, 36803), (15, 36863), (20, 36962), (23, 36983),

Gene: Cumberbatch\_58 Start: 36449, Stop: 36880, Start Num: 5

Candidate Starts for Cumberbatch\_58:

(Start: 5 @36449 has 11 MA's), (Start: 8 @36515 has 4 MA's), (11, 36623), (20, 36782), (23, 36803),

Gene: Darolandstone\_54 Start: 39645, Stop: 40043, Start Num: 7

Candidate Starts for Darolandstone\_54:

(6, 39627), (Start: 7 @39645 has 2 MA's), (11, 39762), (12, 39768), (16, 39849),

Gene: Eastland\_57 Start: 36409, Stop: 36840, Start Num: 5

Candidate Starts for Eastland\_57:

(Start: 5 @36409 has 11 MA's), (Start: 8 @36475 has 4 MA's), (9, 36514), (11, 36583), (23, 36763),

Gene: Eklok\_57 Start: 36276, Stop: 36704, Start Num: 5

Candidate Starts for Eklok\_57:

(Start: 5 @36276 has 11 MA's), (Start: 8 @36342 has 4 MA's), (10, 36441), (11, 36447), (15, 36507), (20, 36606), (23, 36627),

Gene: FrumpyGal\_59 Start: 36409, Stop: 36840, Start Num: 5

Candidate Starts for FrumpyGal\_59:

(Start: 5 @36409 has 11 MA's), (Start: 8 @36475 has 4 MA's), (9, 36514), (11, 36583), (23, 36763),

Gene: HFrancette\_58 Start: 37097, Stop: 37528, Start Num: 5

Candidate Starts for HFrancette\_58:

(Start: 5 @37097 has 11 MA's), (Start: 8 @37163 has 4 MA's), (11, 37271), (20, 37430), (23, 37451),

Gene: Ignacio\_57 Start: 37000, Stop: 37431, Start Num: 5

Candidate Starts for Ignacio\_57:

(Start: 5 @37000 has 11 MA's), (Start: 8 @37066 has 4 MA's), (11, 37174), (20, 37333), (23, 37354),

Gene: Mojarita\_55 Start: 37280, Stop: 37717, Start Num: 8

Candidate Starts for Mojarita\_55:

(1, 36869), (2, 36983), (3, 37025), (4, 37139), (Start: 8 @37280 has 4 MA's), (11, 37382), (15, 37442), (17, 37472), (18, 37529), (21, 37562),

Gene: Picard\_55 Start: 38307, Stop: 38744, Start Num: 8

Candidate Starts for Picard\_55:

(Start: 8 @38307 has 4 MA's), (11, 38409), (15, 38469), (17, 38499), (18, 38556), (21, 38589),

Gene: Piccadilly\_57 Start: 36408, Stop: 36839, Start Num: 5

Candidate Starts for Piccadilly\_57:

(Start: 5 @36408 has 11 MA's), (Start: 8 @36474 has 4 MA's), (9, 36513), (11, 36582), (23, 36762),

Gene: Raleigh\_52 Start: 39698, Stop: 40102, Start Num: 7

Candidate Starts for Raleigh\_52:

(6, 39680), (Start: 7 @39698 has 2 MA's), (11, 39815), (12, 39821), (16, 39902), (22, 39992), (24, 40028),

Gene: SV1\_54 Start: 36332, Stop: 36841, Start Num: 8

Candidate Starts for SV1\_54:

(4, 36185), (Start: 8 @36332 has 4 MA's), (11, 36434), (13, 36452), (15, 36494), (17, 36524), (21, 36602), (27, 36821),

Gene: Schlegelian\_56 Start: 36183, Stop: 36614, Start Num: 5

Candidate Starts for Schlegelian\_56:

(Start: 5 @36183 has 11 MA's), (Start: 8 @36249 has 4 MA's), (11, 36357), (20, 36516), (23, 36537),

Gene: ToastyFinz\_51 Start: 38468, Stop: 38905, Start Num: 8

Candidate Starts for ToastyFinz\_51:

(Start: 8 @38468 has 4 MA's), (11, 38570), (14, 38600), (15, 38630), (18, 38717), (19, 38720), (25, 38858), (26, 38885),

Gene: Vondra\_56 Start: 35994, Stop: 36425, Start Num: 5

Candidate Starts for Vondra\_56:

(Start: 5 @35994 has 11 MA's), (Start: 8 @36060 has 4 MA's), (11, 36168), (20, 36327), (23, 36348),