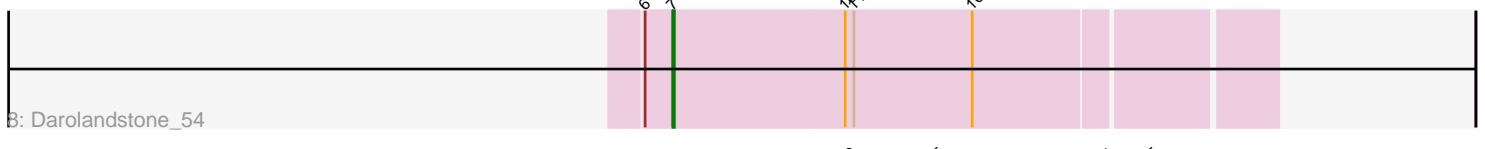
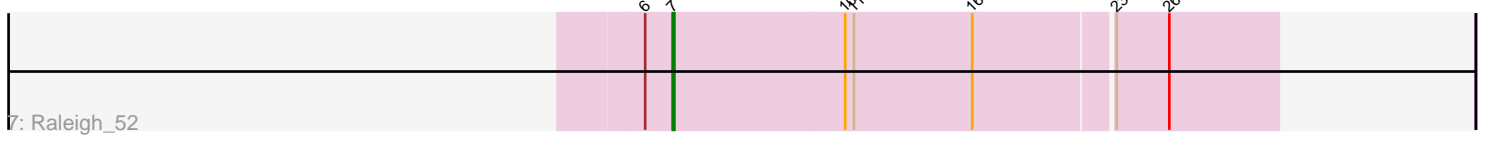
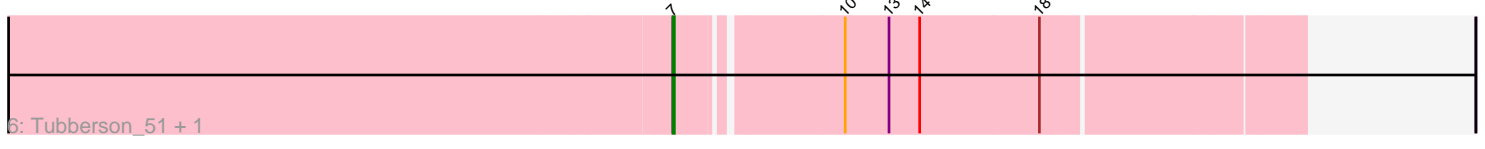
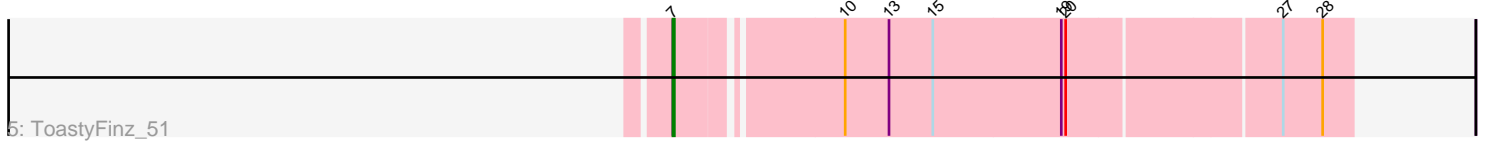
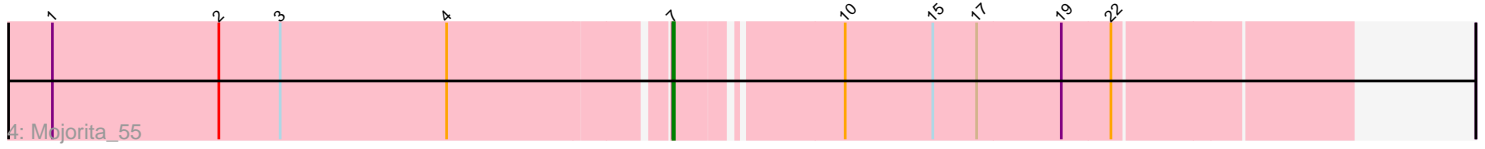
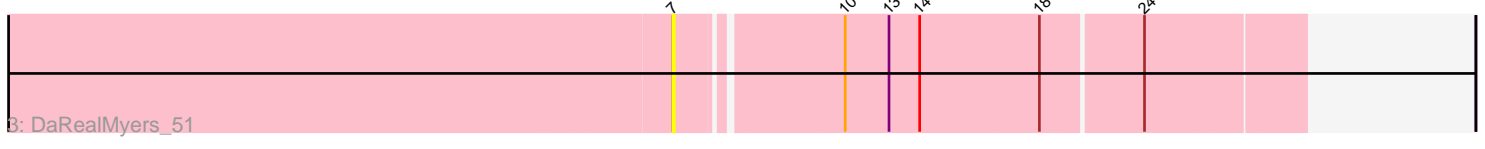
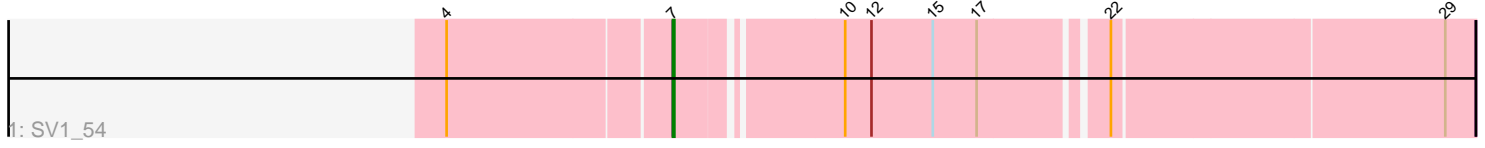


Pham 309316



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 309316 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309316 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : SV1_54
- Track 2 : Picard_55
- Track 3 : DaRealMyers_51
- Track 4 : Mojorita_55
- Track 5 : ToastyFinz_51
- Track 6 : Tubberson_51, SoJo_51
- Track 7 : Raleigh_52
- Track 8 : Darolandstone_54
- Track 9 : Eklok_57, AxeJC_57
- Track 10 : Piccadilly_57, Eastland_57, FrumpyGal_59
- Track 11 : ArizonaGT_59, Cumberbatch_58, HFrancette_58, Ignacio_57, Vondra_56, Schlegelian_56

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 19 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:

- DaRealMyers_51, Darolandstone_54, Mojorita_55, Picard_55, Raleigh_52, SV1_54, SoJo_51, ToastyFinz_51, Tubberson_51,

Summary by start number:

Start 5:

- Found in 11 of 20 (55.0%) of genes in pham

- Manual Annotations of this start: 11 of 19
- 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 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 8 of 19
- Called 45.0% of time when present
- Phage (with cluster) where this start called: DaRealMyers_51 (BC1), Darolandstone_54 (BC2), Mojarita_55 (BC1), Picard_55 (BC1), Raleigh_52 (BC2), SV1_54 (BC1), SoJo_51 (BC1), ToastyFinz_51 (BC1), Tubberson_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 7 was manually annotated 6 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: 7 @36515 has 8 MA's), (10, 36623), (21, 36782), (25, 36803),

Gene: AxeJC_57 Start: 36632, Stop: 37060, Start Num: 5

Candidate Starts for AxeJC_57:

(Start: 5 @36632 has 11 MA's), (Start: 7 @36698 has 8 MA's), (9, 36797), (10, 36803), (15, 36863), (21, 36962), (25, 36983),

Gene: Cumberbatch_58 Start: 36449, Stop: 36880, Start Num: 5

Candidate Starts for Cumberbatch_58:

(Start: 5 @36449 has 11 MA's), (Start: 7 @36515 has 8 MA's), (10, 36623), (21, 36782), (25, 36803),

Gene: DaRealMyers_51 Start: 37646, Stop: 38050, Start Num: 7

Candidate Starts for DaRealMyers_51:

(Start: 7 @37646 has 8 MA's), (10, 37748), (13, 37778), (14, 37799), (18, 37880), (24, 37946),

Gene: Darolandstone_54 Start: 39645, Stop: 40043, Start Num: 7

Candidate Starts for Darolandstone_54:

(6, 39627), (Start: 7 @39645 has 8 MA's), (10, 39762), (11, 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: 7 @36475 has 8 MA's), (8, 36514), (10, 36583), (25, 36763),

Gene: Eklok_57 Start: 36276, Stop: 36704, Start Num: 5
Candidate Starts for Eklok_57:
(Start: 5 @36276 has 11 MA's), (Start: 7 @36342 has 8 MA's), (9, 36441), (10, 36447), (15, 36507),
(21, 36606), (25, 36627),

Gene: FrumpyGal_59 Start: 36409, Stop: 36840, Start Num: 5
Candidate Starts for FrumpyGal_59:
(Start: 5 @36409 has 11 MA's), (Start: 7 @36475 has 8 MA's), (8, 36514), (10, 36583), (25, 36763),

Gene: HFrancette_58 Start: 37097, Stop: 37528, Start Num: 5
Candidate Starts for HFrancette_58:
(Start: 5 @37097 has 11 MA's), (Start: 7 @37163 has 8 MA's), (10, 37271), (21, 37430), (25, 37451),

Gene: Ignacio_57 Start: 37000, Stop: 37431, Start Num: 5
Candidate Starts for Ignacio_57:
(Start: 5 @37000 has 11 MA's), (Start: 7 @37066 has 8 MA's), (10, 37174), (21, 37333), (25, 37354),

Gene: Mojarita_55 Start: 37280, Stop: 37717, Start Num: 7
Candidate Starts for Mojarita_55:
(1, 36869), (2, 36983), (3, 37025), (4, 37139), (Start: 7 @37280 has 8 MA's), (10, 37382), (15, 37442),
(17, 37472), (19, 37529), (22, 37562),

Gene: Picard_55 Start: 38307, Stop: 38744, Start Num: 7
Candidate Starts for Picard_55:
(Start: 7 @38307 has 8 MA's), (10, 38409), (15, 38469), (17, 38499), (19, 38556), (22, 38589),

Gene: Piccadilly_57 Start: 36408, Stop: 36839, Start Num: 5
Candidate Starts for Piccadilly_57:
(Start: 5 @36408 has 11 MA's), (Start: 7 @36474 has 8 MA's), (8, 36513), (10, 36582), (25, 36762),

Gene: Raleigh_52 Start: 39698, Stop: 40102, Start Num: 7
Candidate Starts for Raleigh_52:
(6, 39680), (Start: 7 @39698 has 8 MA's), (10, 39815), (11, 39821), (16, 39902), (23, 39992), (26,
40028),

Gene: SV1_54 Start: 36332, Stop: 36841, Start Num: 7
Candidate Starts for SV1_54:
(4, 36185), (Start: 7 @36332 has 8 MA's), (10, 36434), (12, 36452), (15, 36494), (17, 36524), (22,
36602), (29, 36821),

Gene: Schlegelian_56 Start: 36183, Stop: 36614, Start Num: 5
Candidate Starts for Schlegelian_56:
(Start: 5 @36183 has 11 MA's), (Start: 7 @36249 has 8 MA's), (10, 36357), (21, 36516), (25, 36537),

Gene: SoJo_51 Start: 37647, Stop: 38051, Start Num: 7
Candidate Starts for SoJo_51:
(Start: 7 @37647 has 8 MA's), (10, 37749), (13, 37779), (14, 37800), (18, 37881),

Gene: ToastyFinz_51 Start: 38468, Stop: 38905, Start Num: 7

Candidate Starts for ToastyFinz_51:

(Start: 7 @38468 has 8 MA's), (10, 38570), (13, 38600), (15, 38630), (19, 38717), (20, 38720), (27, 38858), (28, 38885),

Gene: Tubberson_51 Start: 37642, Stop: 38046, Start Num: 7

Candidate Starts for Tubberson_51:

(Start: 7 @37642 has 8 MA's), (10, 37744), (13, 37774), (14, 37795), (18, 37876),

Gene: Vondra_56 Start: 35994, Stop: 36425, Start Num: 5

Candidate Starts for Vondra_56:

(Start: 5 @35994 has 11 MA's), (Start: 7 @36060 has 8 MA's), (10, 36168), (21, 36327), (25, 36348),