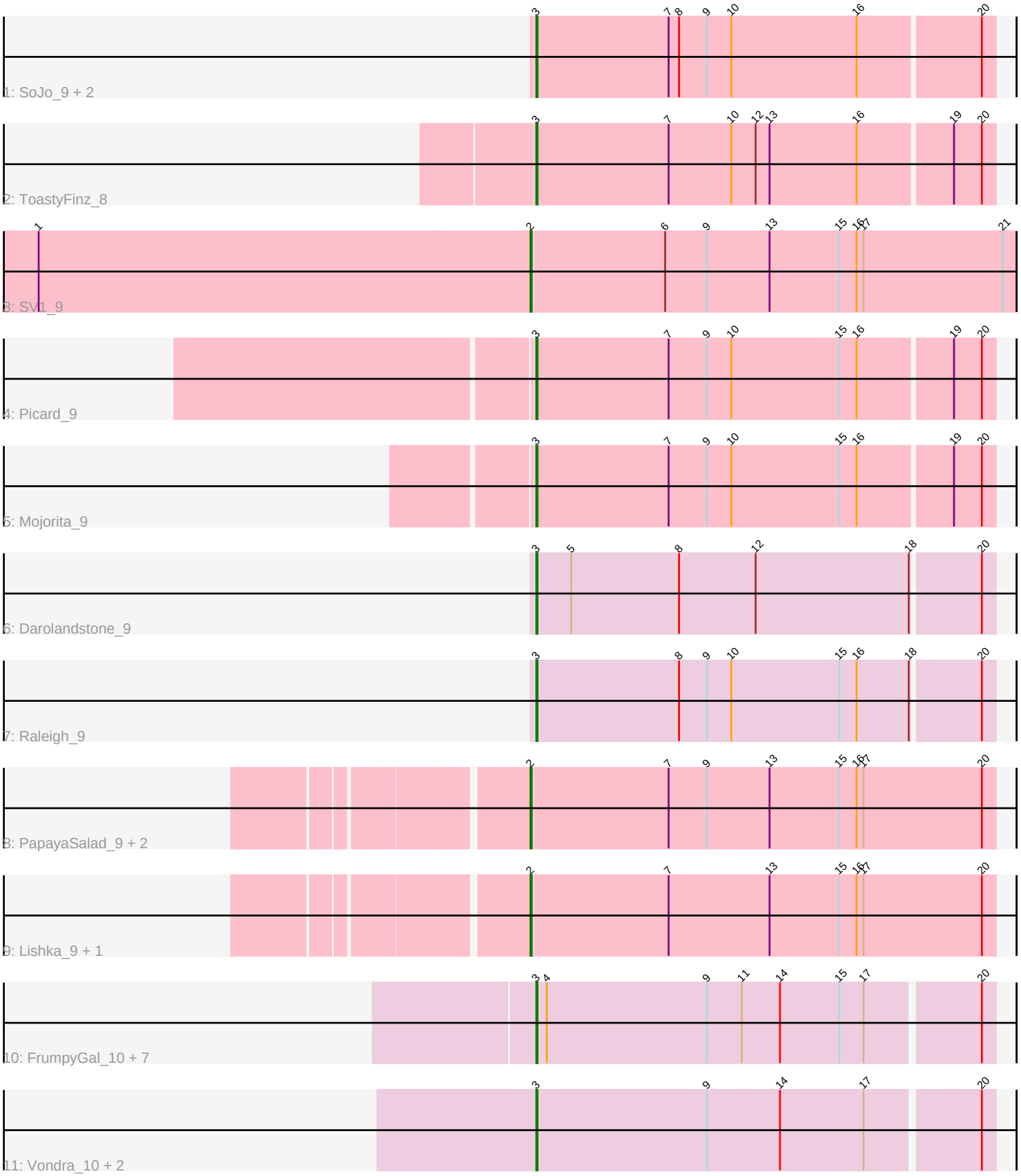
# Pham 342461


1: SoJo_9 + 2
2: ToastyFinz_8
3: SV1_9
4: Picard_9
5: Mojorita_9
6: Darolandstone_9
7: Raleigh_9
8: PapayaSalad_9 + 2
9: Lishka_9 + 1
10: FrumpyGal_10 + 7
11: Vondra_10 + 2

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 342461 Report

This analysis was run 11/14/26 on database version 672.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 342461 has 25 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SoJo_9, Tubberson_9, DaRealMyers_9
• Track 2 : ToastyFinz_8
• Track 3 : SV1_9
• Track 4 : Picard_9
• Track 5 : Mojorita_9
• Track 6 : Darolandstone_9
• Track 7 : Raleigh_9
• Track 8 : PapayaSalad_9, Bioscum_9, Ididsumtinwong_9
• Track 9 : Lishka_9, Austintatious_9
• Track 10 : FrumpyGal_10, Piccadilly_10, Schlegelian_10, Eastland_10, Eklok_10, Cumberbatch_10, ArizonaGT_10, AxeJC_10
• Track 11 : Vondra_10, HFrancette_10, Ignacio_10

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

The start number called the most often in the published annotations is 3, it was called in 19 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArizonaGT_10, AxeJC_10, Cumberbatch_10, DaRealMyers_9, Darolandstone_9, Eastland_10, Eklok_10, FrumpyGal_10, HFrancette_10, Ignacio_10, Mojorita_9, Picard_9, Piccadilly_10, Raleigh_9, Schlegelian_10, SoJo_9, ToastyFinz_8, Tubberson_9, Vondra_10,

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

Genes that do not have the "Most Annotated" start:
• Austintatious_9, Bioscum_9, Ididsumtinwong_9, Lishka_9, PapayaSalad_9, SV1_9,

**Summary by start number:**

Start 2:
• Found in 6 of 25 ( 24.0% ) of genes in pham
• Manual Annotations of this start: 6 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_9 (BC3), Bioscum_9 (BC3), Ididsumtinwong_9 (BC3), Lishka_9 (BC3), PapayaSalad_9 (BC3), SV1_9 (BC1),

Start 3:
• Found in 19 of 25 ( 76.0% ) of genes in pham
• Manual Annotations of this start: 19 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArizonaGT_10 (BP), AxeJC_10 (BP), Cumberbatch_10 (BP), DaRealMyers_9 (BC1), Darolandstone_9 (BC2), Eastland_10 (BP), Eklok_10 (BP), FrumpyGal_10 (BP), HFrancette_10 (BP), Ignacio_10 (BP), Mojorita_9 (BC1), Picard_9 (BC1), Piccadilly_10 (BP), Raleigh_9 (BC2), Schlegelian_10 (BP), SoJo_9 (BC1), ToastyFinz_8 (BC1), Tubberson_9 (BC1), Vondra_10 (BP),

**Summary by clusters:**

There are 4 clusters represented in this pham: BP, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:
•Start number 2 was manually annotated 1 time for cluster BC1.
•Start number 3 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 3 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 2 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:
•Start number 3 was manually annotated 11 times for cluster BP.

***Gene Information:***

Gene: ArizonaGT_10 Start: 7268, Stop: 7654, Start Num: 3
Candidate Starts for ArizonaGT_10:
(Start: 3 @7268 has 19 MA's), (4, 7277), (9, 7415), (11, 7445), (14, 7478), (15, 7529), (17, 7550), (20, 7643),

Gene: Austintatious_9 Start: 7121, Stop: 7519, Start Num: 2
Candidate Starts for Austintatious_9:
(Start: 2 @7121 has 6 MA's), (7, 7238), (13, 7325), (15, 7385), (16, 7400), (17, 7406), (20, 7508),

Gene: AxeJC_10 Start: 7281, Stop: 7667, Start Num: 3
Candidate Starts for AxeJC_10:

(Start: 3 @7281 has 19 MA's), (4, 7290), (9, 7428), (11, 7458), (14, 7491), (15, 7542), (17, 7563), (20, 7656),

Gene: Bioscum_9 Start: 7157, Stop: 7555, Start Num: 2
Candidate Starts for Bioscum_9:
(Start: 2 @7157 has 6 MA's), (7, 7274), (9, 7307), (13, 7361), (15, 7421), (16, 7436), (17, 7442), (20, 7544),

Gene: Cumberbatch_10 Start: 7268, Stop: 7654, Start Num: 3
Candidate Starts for Cumberbatch_10:
(Start: 3 @7268 has 19 MA's), (4, 7277), (9, 7415), (11, 7445), (14, 7478), (15, 7529), (17, 7550), (20, 7643),

Gene: DaRealMyers_9 Start: 7360, Stop: 7749, Start Num: 3
Candidate Starts for DaRealMyers_9:
(Start: 3 @7360 has 19 MA's), (7, 7474), (8, 7483), (9, 7507), (10, 7528), (16, 7636), (20, 7738),

Gene: Darolandstone_9 Start: 7600, Stop: 7989, Start Num: 3
Candidate Starts for Darolandstone_9:
(Start: 3 @7600 has 19 MA's), (5, 7630), (8, 7723), (12, 7789), (18, 7921), (20, 7978),

Gene: Eastland_10 Start: 7269, Stop: 7655, Start Num: 3
Candidate Starts for Eastland_10:
(Start: 3 @7269 has 19 MA's), (4, 7278), (9, 7416), (11, 7446), (14, 7479), (15, 7530), (17, 7551), (20, 7644),

Gene: Eklok_10 Start: 7281, Stop: 7667, Start Num: 3
Candidate Starts for Eklok_10:
(Start: 3 @7281 has 19 MA's), (4, 7290), (9, 7428), (11, 7458), (14, 7491), (15, 7542), (17, 7563), (20, 7656),

Gene: FrumpyGal_10 Start: 7269, Stop: 7655, Start Num: 3
Candidate Starts for FrumpyGal_10:
(Start: 3 @7269 has 19 MA's), (4, 7278), (9, 7416), (11, 7446), (14, 7479), (15, 7530), (17, 7551), (20, 7644),

Gene: HFrancette_10 Start: 7277, Stop: 7663, Start Num: 3
Candidate Starts for HFrancette_10:
(Start: 3 @7277 has 19 MA's), (9, 7424), (14, 7487), (17, 7559), (20, 7652),

Gene: Ididsumtinwong_9 Start: 7157, Stop: 7555, Start Num: 2
Candidate Starts for Ididsumtinwong_9:
(Start: 2 @7157 has 6 MA's), (7, 7274), (9, 7307), (13, 7361), (15, 7421), (16, 7436), (17, 7442), (20, 7544),

Gene: Ignacio_10 Start: 7277, Stop: 7663, Start Num: 3
Candidate Starts for Ignacio_10:
(Start: 3 @7277 has 19 MA's), (9, 7424), (14, 7487), (17, 7559), (20, 7652),

Gene: Lishka_9 Start: 7121, Stop: 7519, Start Num: 2
Candidate Starts for Lishka_9:
(Start: 2 @7121 has 6 MA's), (7, 7238), (13, 7325), (15, 7385), (16, 7400), (17, 7406), (20, 7508),

Gene: Mojorita_9 Start: 7446, Stop: 7835, Start Num: 3
Candidate Starts for Mojorita_9:
(Start: 3 @7446 has 19 MA's), (7, 7560), (9, 7593), (10, 7614), (15, 7707), (16, 7722), (19, 7800), (20, 7824),

Gene: PapayaSalad_9 Start: 7129, Stop: 7527, Start Num: 2
Candidate Starts for PapayaSalad_9:
(Start: 2 @7129 has 6 MA's), (7, 7246), (9, 7279), (13, 7333), (15, 7393), (16, 7408), (17, 7414), (20, 7516),

Gene: Picard_9 Start: 7446, Stop: 7835, Start Num: 3
Candidate Starts for Picard_9:
(Start: 3 @7446 has 19 MA's), (7, 7560), (9, 7593), (10, 7614), (15, 7707), (16, 7722), (19, 7800), (20, 7824),

Gene: Piccadilly_10 Start: 7268, Stop: 7654, Start Num: 3
Candidate Starts for Piccadilly_10:
(Start: 3 @7268 has 19 MA's), (4, 7277), (9, 7415), (11, 7445), (14, 7478), (15, 7529), (17, 7550), (20, 7643),

Gene: Raleigh_9 Start: 7565, Stop: 7954, Start Num: 3
Candidate Starts for Raleigh_9:
(Start: 3 @7565 has 19 MA's), (8, 7688), (9, 7712), (10, 7733), (15, 7826), (16, 7841), (18, 7886), (20, 7943),

Gene: SV1_9 Start: 7311, Stop: 7727, Start Num: 2
Candidate Starts for SV1_9:
(1, 6888), (Start: 2 @7311 has 6 MA's), (6, 7425), (9, 7461), (13, 7515), (15, 7575), (16, 7590), (17, 7596), (21, 7716),

Gene: Schlegelian_10 Start: 7268, Stop: 7654, Start Num: 3
Candidate Starts for Schlegelian_10:
(Start: 3 @7268 has 19 MA's), (4, 7277), (9, 7415), (11, 7445), (14, 7478), (15, 7529), (17, 7550), (20, 7643),

Gene: SoJo_9 Start: 7360, Stop: 7749, Start Num: 3
Candidate Starts for SoJo_9:
(Start: 3 @7360 has 19 MA's), (7, 7474), (8, 7483), (9, 7507), (10, 7528), (16, 7636), (20, 7738),

Gene: ToastyFinz_8 Start: 7224, Stop: 7613, Start Num: 3
Candidate Starts for ToastyFinz_8:
(Start: 3 @7224 has 19 MA's), (7, 7338), (10, 7392), (12, 7413), (13, 7425), (16, 7500), (19, 7578), (20, 7602),

Gene: Tubberson_9 Start: 7360, Stop: 7749, Start Num: 3
Candidate Starts for Tubberson_9:
(Start: 3 @7360 has 19 MA's), (7, 7474), (8, 7483), (9, 7507), (10, 7528), (16, 7636), (20, 7738),

Gene: Vondra_10 Start: 7277, Stop: 7663, Start Num: 3
Candidate Starts for Vondra_10:
(Start: 3 @7277 has 19 MA's), (9, 7424), (14, 7487), (17, 7559), (20, 7652),