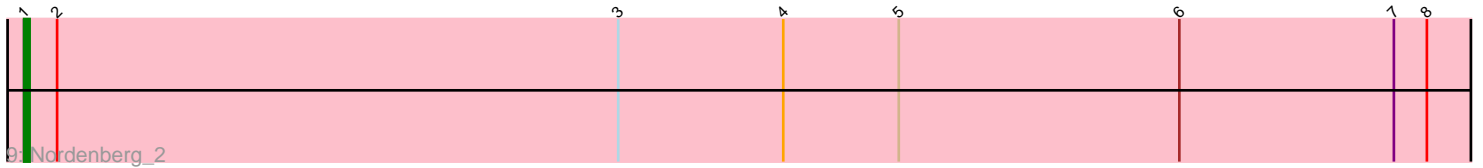
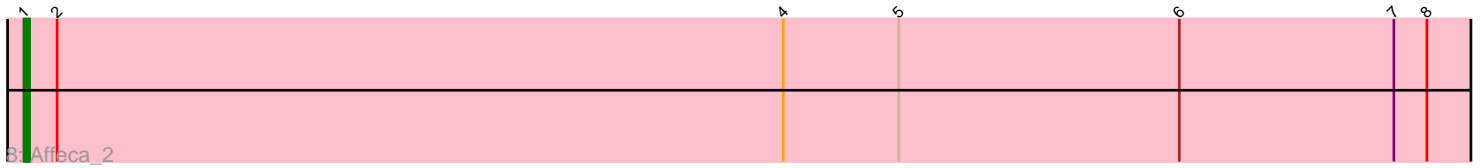
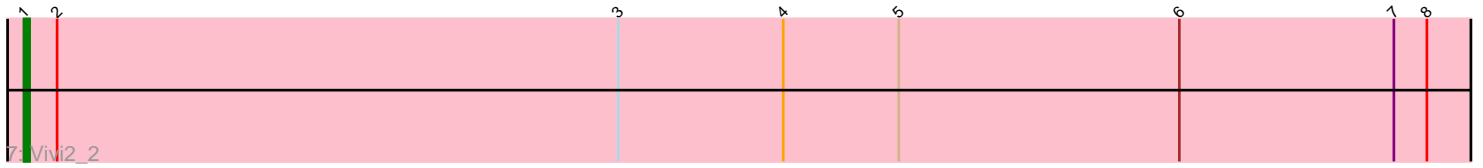
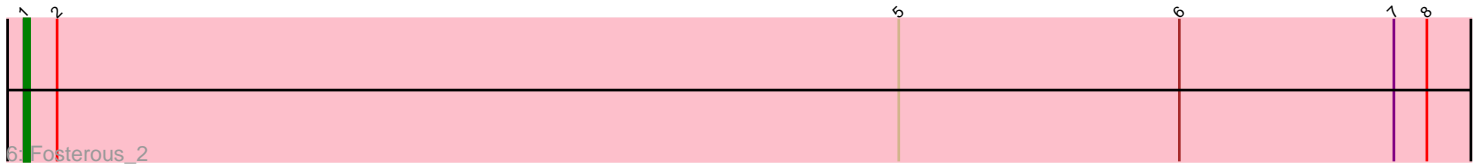
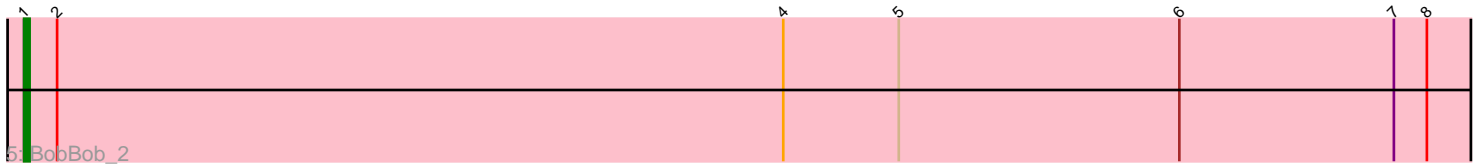
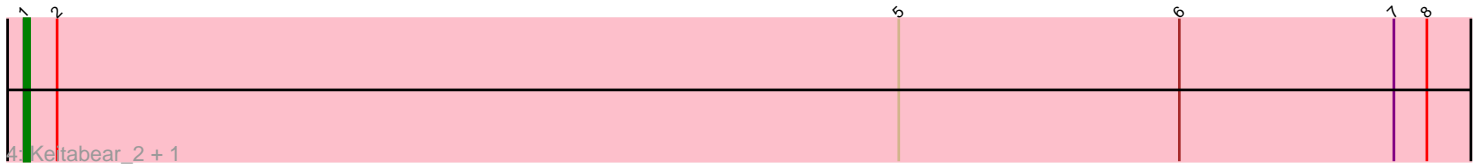
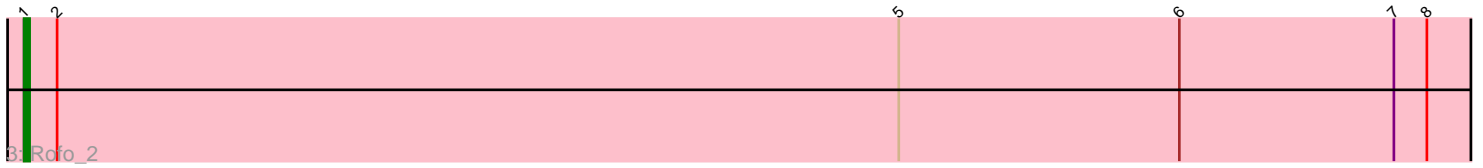
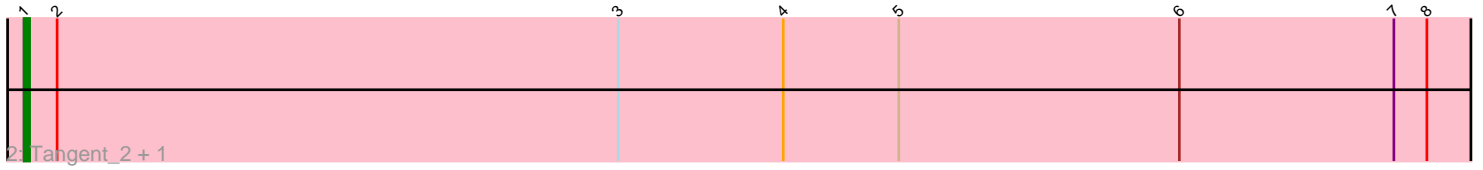
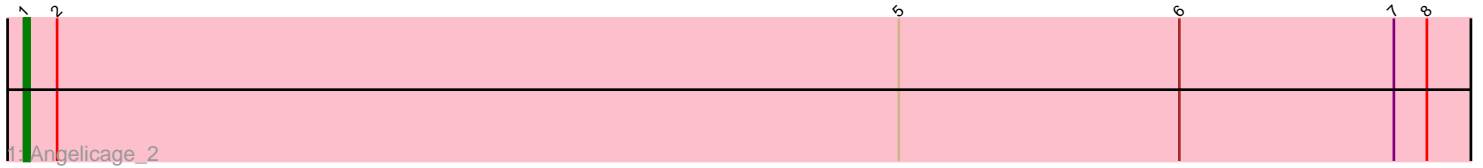


# Zoomed Pham 223608



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 223608 Report

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

Pham number 223608 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Angelicage\_2
- Track 2 : Tangent\_2, Charming\_2
- Track 3 : Rofo\_2
- Track 4 : Keitabear\_2, Sedona\_2
- Track 5 : BobBob\_2
- Track 6 : Fosterous\_2
- Track 7 : Vivi2\_2
- Track 8 : Affeca\_2
- Track 9 : Nordenberg\_2

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca\_2, Angelicage\_2, BobBob\_2, Charming\_2, Fosterous\_2, Keitabear\_2, Nordenberg\_2, Rofo\_2, Sedona\_2, Tangent\_2, Vivi2\_2,

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

- 

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

- 

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

Start 1:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Affeca\_2 (DE1), Angelicage\_2 (DE1), BobBob\_2 (DE1), Charming\_2 (DE1), Fosterous\_2 (DE1), Keitabear\_2 (DE1), Nordenberg\_2 (DE1), Rofo\_2 (DE1), Sedona\_2 (DE1), Tangent\_2 (DE1), Vivi2\_2

(DE1),

### Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

•Start number 1 was manually annotated 11 times for cluster DE1.

### Gene Information:

Gene: Affeca\_2 Start: 514, Stop: 2901, Start Num: 1

Candidate Starts for Affeca\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (11, 865), (12, 877), (13, 1006), (14, 1012), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (23, 1249), (24, 1264), (25, 1312), (35, 1639), (37, 1663), (39, 1738), (40, 1759), (41, 1777), (42, 1783), (44, 1855), (45, 1879), (47, 2023), (48, 2044), (49, 2176), (50, 2203), (51, 2215), (53, 2296), (54, 2308), (55, 2434), (56, 2452), (57, 2518), (58, 2527), (59, 2599), (60, 2620), (61, 2629), (62, 2659), (63, 2674), (64, 2725), (65, 2773), (66, 2791), (67, 2794), (68, 2821), (69, 2881),

Gene: Angelicage\_2 Start: 514, Stop: 2901, Start Num: 1

Candidate Starts for Angelicage\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (11, 865), (12, 877), (13, 1006), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (25, 1312), (31, 1420), (45, 1879), (47, 2023), (48, 2044), (49, 2176), (50, 2203), (51, 2215), (53, 2296), (54, 2308), (55, 2434), (56, 2452), (57, 2518), (59, 2599), (60, 2620), (61, 2629), (62, 2659), (63, 2674), (65, 2773), (68, 2821),

Gene: BobBob\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for BobBob\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (12, 877), (13, 1006), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (58, 2533), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797),

Gene: Charming\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Charming\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (3, 622), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (22, 1198), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797),

Gene: Fosterous\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Fosterous\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (23, 1249), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33,

1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (53, 2302), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (58, 2533), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797), (68, 2827),

Gene: Keitabear\_2 Start: 514, Stop: 2901, Start Num: 1

Candidate Starts for Keitabear\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (23, 1249), (24, 1264), (25, 1312), (35, 1639), (37, 1663), (39, 1738), (40, 1759), (41, 1777), (42, 1783), (44, 1855), (45, 1879), (47, 2023), (48, 2044), (49, 2176), (50, 2203), (51, 2215), (52, 2284), (54, 2308), (55, 2434), (56, 2452), (57, 2518), (59, 2599), (60, 2620), (61, 2629), (62, 2659), (63, 2674), (65, 2773), (66, 2791), (68, 2821), (69, 2881),

Gene: Nordenberg\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Nordenberg\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (3, 622), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (22, 1198), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (53, 2302), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797),

Gene: Rofo\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Rofo\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797), (68, 2827),

Gene: Sedona\_2 Start: 514, Stop: 2901, Start Num: 1

Candidate Starts for Sedona\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (23, 1249), (24, 1264), (25, 1312), (35, 1639), (37, 1663), (39, 1738), (40, 1759), (41, 1777), (42, 1783), (44, 1855), (45, 1879), (47, 2023), (48, 2044), (49, 2176), (50, 2203), (51, 2215), (52, 2284), (54, 2308), (55, 2434), (56, 2452), (57, 2518), (59, 2599), (60, 2620), (61, 2629), (62, 2659), (63, 2674), (65, 2773), (66, 2791), (68, 2821), (69, 2881),

Gene: Tangent\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Tangent\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (3, 622), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (22, 1198), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (66, 2797),

Gene: Vivi2\_2 Start: 514, Stop: 2907, Start Num: 1

Candidate Starts for Vivi2\_2:

(Start: 1 @514 has 11 MA's), (2, 520), (3, 622), (4, 652), (5, 673), (6, 724), (7, 763), (8, 769), (9, 790), (10, 841), (11, 865), (12, 877), (13, 1006), (15, 1060), (16, 1078), (17, 1099), (18, 1135), (19, 1144), (20, 1150), (21, 1174), (24, 1264), (25, 1312), (26, 1327), (27, 1330), (28, 1360), (29, 1390), (30, 1417), (32, 1423), (33, 1615), (34, 1633), (35, 1645), (36, 1666), (38, 1726), (41, 1783), (43, 1822), (46, 1939), (47, 2029), (48, 2050), (49, 2182), (50, 2209), (51, 2221), (52, 2290), (54, 2314), (55, 2440), (56, 2458), (57, 2524), (58, 2533), (59, 2605), (60, 2626), (61, 2635), (62, 2665), (63, 2680), (65, 2779), (68, 2827),