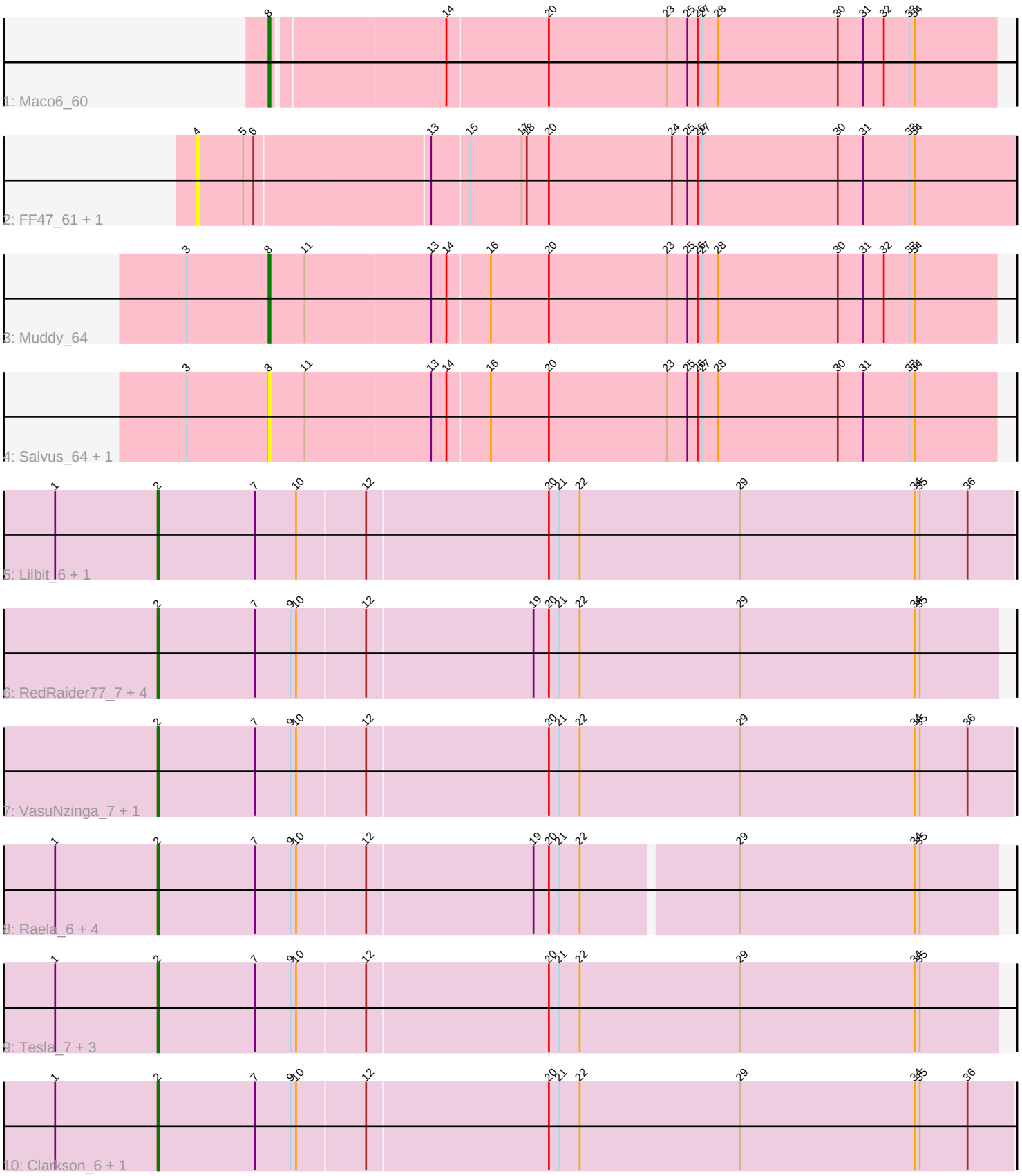
Pham 346068


1: Maco6_60
2: FF47_61 + 1
3: Muddy_64
4: Salvus_64 + 1
5: Lilbit_6 + 1
6: RedRaider77_7 + 4
7: VasuNzinga_7 + 1
8: Raela_6 + 4
9: Tesla_7 + 3
10: Clarkson_6 + 1

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 346068 Report

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

Pham number 346068 has 26 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Maco6_60
• Track 2 : FF47_61, 8UZL_64
• Track 3 : Muddy_64
• Track 4 : Salvus_64, LongHai_64
• Track 5 : Lilbit_6, Pringar_5
• Track 6 : RedRaider77_7, Blackbeetle_7, LittleLaf_6, Poise_7, Caprice_7
• Track 7 : VasuNzinga_7, Beelzebub_7
• Track 8 : Raela_6, GoongGoong_7, JoieB_7, MosMoris_8, Gattaca_8
• Track 9 : Tesla_7, Huphlepuff_6, Corazon_6, Marvin_6
• Track 10 : Clarkson_6, FeliMaine_6

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beelzebub_7, Blackbeetle_7, Caprice_7, Clarkson_6, Corazon_6, FeliMaine_6, Gattaca_8, GoongGoong_7, Huphlepuff_6, JoieB_7, Lilbit_6, LittleLaf_6, Marvin_6, MosMoris_8, Poise_7, Pringar_5, Raela_6, RedRaider77_7, Tesla_7, VasuNzinga_7,

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

Genes that do not have the "Most Annotated" start:
• 8UZL_64, FF47_61, LongHai_64, Maco6_60, Muddy_64, Salvus_64,

Summary by start number:

Start 2:
• Found in 20 of 26 (76.9%) of genes in pham
• Manual Annotations of this start: 20 of 22
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Beelzebub_7 (S), Blackbeetle_7 (S), Caprice_7 (S), Clarkson_6 (S), Corazon_6 (S), FeliMaine_6 (S), Gattaca_8 (S), GoongGoong_7 (S), Huphlepuff_6 (S), JoieB_7 (S), Lilbit_6 (S), LittleLaf_6 (S), Marvin_6 (S), MosMoris_8 (S), Poise_7 (S), Pringar_5 (S), Raela_6 (S), RedRaider77_7 (S), Tesla_7 (S), VasuNzinga_7 (S),

Start 4:
• Found in 2 of 26 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_64 (AB), FF47_61 (AB),

Start 8:
• Found in 4 of 26 (15.4%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LongHai_64 (AB), Maco6_60 (AB), Muddy_64 (AB), Salvus_64 (AB),

Summary by clusters:

There are 2 clusters represented in this pham: S, AB,

Info for manual annotations of cluster AB:
•Start number 8 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster S:
•Start number 2 was manually annotated 20 times for cluster S.

Gene Information:

Gene: 8UZL_64 Start: 45162, Stop: 45632, Start Num: 4
Candidate Starts for 8UZL_64:
(4, 45162), (5, 45189), (6, 45195), (13, 45294), (15, 45315), (17, 45345), (18, 45348), (20, 45360), (24, 45432), (25, 45441), (26, 45447), (27, 45450), (30, 45528), (31, 45543), (33, 45570), (34, 45573),

Gene: Beelzebub_7 Start: 2048, Stop: 2542, Start Num: 2
Candidate Starts for Beelzebub_7:
(Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489), (36, 2516),

Gene: Blackbeetle_7 Start: 2057, Stop: 2542, Start Num: 2
Candidate Starts for Blackbeetle_7:
(Start: 2 @2057 has 20 MA's), (7, 2114), (9, 2135), (10, 2138), (12, 2177), (19, 2273), (20, 2282), (21, 2288), (22, 2300), (29, 2393), (34, 2495), (35, 2498),

Gene: Caprice_7 Start: 2057, Stop: 2542, Start Num: 2
Candidate Starts for Caprice_7:
(Start: 2 @2057 has 20 MA's), (7, 2114), (9, 2135), (10, 2138), (12, 2177), (19, 2273), (20, 2282), (21, 2288), (22, 2300), (29, 2393), (34, 2495), (35, 2498),

Gene: Clarkson_6 Start: 1824, Stop: 2318, Start Num: 2
Candidate Starts for Clarkson_6:
(1, 1764), (Start: 2 @1824 has 20 MA's), (7, 1881), (9, 1902), (10, 1905), (12, 1944), (20, 2049), (21, 2055), (22, 2067), (29, 2160), (34, 2262), (35, 2265), (36, 2292),

Gene: Corazon_6 Start: 2048, Stop: 2533, Start Num: 2
Candidate Starts for Corazon_6:
(1, 1988), (Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489),

Gene: FF47_61 Start: 45076, Stop: 45546, Start Num: 4
Candidate Starts for FF47_61:
(4, 45076), (5, 45103), (6, 45109), (13, 45208), (15, 45229), (17, 45259), (18, 45262), (20, 45274), (24, 45346), (25, 45355), (26, 45361), (27, 45364), (30, 45442), (31, 45457), (33, 45484), (34, 45487),

Gene: FeliMaine_6 Start: 1825, Stop: 2319, Start Num: 2
Candidate Starts for FeliMaine_6:
(1, 1765), (Start: 2 @1825 has 20 MA's), (7, 1882), (9, 1903), (10, 1906), (12, 1945), (20, 2050), (21, 2056), (22, 2068), (29, 2161), (34, 2263), (35, 2266), (36, 2293),

Gene: Gattaca_8 Start: 2048, Stop: 2527, Start Num: 2
Candidate Starts for Gattaca_8:
(1, 1988), (Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (19, 2264), (20, 2273), (21, 2279), (22, 2291), (29, 2378), (34, 2480), (35, 2483),

Gene: GoongGoong_7 Start: 2057, Stop: 2536, Start Num: 2
Candidate Starts for GoongGoong_7:
(1, 1997), (Start: 2 @2057 has 20 MA's), (7, 2114), (9, 2135), (10, 2138), (12, 2177), (19, 2273), (20, 2282), (21, 2288), (22, 2300), (29, 2387), (34, 2489), (35, 2492),

Gene: Huphlepuff_6 Start: 1825, Stop: 2310, Start Num: 2
Candidate Starts for Huphlepuff_6:
(1, 1765), (Start: 2 @1825 has 20 MA's), (7, 1882), (9, 1903), (10, 1906), (12, 1945), (20, 2050), (21, 2056), (22, 2068), (29, 2161), (34, 2263), (35, 2266),

Gene: JoieB_7 Start: 2047, Stop: 2532, Start Num: 2
Candidate Starts for JoieB_7:
(1, 1987), (Start: 2 @2047 has 20 MA's), (7, 2104), (9, 2125), (10, 2128), (12, 2167), (19, 2263), (20, 2272), (21, 2278), (22, 2290), (29, 2383), (34, 2485), (35, 2488),

Gene: Lilbit_6 Start: 1825, Stop: 2319, Start Num: 2
Candidate Starts for Lilbit_6:
(1, 1765), (Start: 2 @1825 has 20 MA's), (7, 1882), (10, 1906), (12, 1945), (20, 2050), (21, 2056), (22, 2068), (29, 2161), (34, 2263), (35, 2266), (36, 2293),

Gene: LittleLaf_6 Start: 1825, Stop: 2310, Start Num: 2
Candidate Starts for LittleLaf_6:
(Start: 2 @1825 has 20 MA's), (7, 1882), (9, 1903), (10, 1906), (12, 1945), (19, 2041), (20, 2050), (21, 2056), (22, 2068), (29, 2161), (34, 2263), (35, 2266),

Gene: LongHai_64 Start: 45489, Stop: 45908, Start Num: 8
Candidate Starts for LongHai_64:

(3, 45441), (Start: 8 @45489 has 2 MA's), (11, 45510), (13, 45582), (14, 45591), (16, 45615), (20, 45648), (23, 45717), (25, 45729), (26, 45735), (27, 45738), (28, 45747), (30, 45816), (31, 45831), (33, 45858), (34, 45861),

Gene: Maco6_60 Start: 44565, Stop: 44978, Start Num: 8
Candidate Starts for Maco6_60:
(Start: 8 @44565 has 2 MA's), (14, 44661), (20, 44718), (23, 44787), (25, 44799), (26, 44805), (27, 44808), (28, 44817), (30, 44886), (31, 44901), (32, 44913), (33, 44928), (34, 44931),

Gene: Marvin_6 Start: 2048, Stop: 2533, Start Num: 2
Candidate Starts for Marvin_6:
(1, 1988), (Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489),

Gene: MosMoris_8 Start: 2048, Stop: 2527, Start Num: 2
Candidate Starts for MosMoris_8:
(1, 1988), (Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (19, 2264), (20, 2273), (21, 2279), (22, 2291), (29, 2378), (34, 2480), (35, 2483),

Gene: Muddy_64 Start: 45657, Stop: 46076, Start Num: 8
Candidate Starts for Muddy_64:
(3, 45609), (Start: 8 @45657 has 2 MA's), (11, 45678), (13, 45750), (14, 45759), (16, 45783), (20, 45816), (23, 45885), (25, 45897), (26, 45903), (27, 45906), (28, 45915), (30, 45984), (31, 45999), (32, 46011), (33, 46026), (34, 46029),

Gene: Poise_7 Start: 2057, Stop: 2542, Start Num: 2
Candidate Starts for Poise_7:
(Start: 2 @2057 has 20 MA's), (7, 2114), (9, 2135), (10, 2138), (12, 2177), (19, 2273), (20, 2282), (21, 2288), (22, 2300), (29, 2393), (34, 2495), (35, 2498),

Gene: Pringar_5 Start: 1379, Stop: 1873, Start Num: 2
Candidate Starts for Pringar_5:
(1, 1319), (Start: 2 @1379 has 20 MA's), (7, 1436), (10, 1460), (12, 1499), (20, 1604), (21, 1610), (22, 1622), (29, 1715), (34, 1817), (35, 1820), (36, 1847),

Gene: Raela_6 Start: 2057, Stop: 2536, Start Num: 2
Candidate Starts for Raela_6:
(1, 1997), (Start: 2 @2057 has 20 MA's), (7, 2114), (9, 2135), (10, 2138), (12, 2177), (19, 2273), (20, 2282), (21, 2288), (22, 2300), (29, 2387), (34, 2489), (35, 2492),

Gene: RedRaider77_7 Start: 2048, Stop: 2533, Start Num: 2
Candidate Starts for RedRaider77_7:
(Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (19, 2264), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489),

Gene: Salvus_64 Start: 45489, Stop: 45908, Start Num: 8
Candidate Starts for Salvus_64:
(3, 45441), (Start: 8 @45489 has 2 MA's), (11, 45510), (13, 45582), (14, 45591), (16, 45615), (20, 45648), (23, 45717), (25, 45729), (26, 45735), (27, 45738), (28, 45747), (30, 45816), (31, 45831), (33, 45858), (34, 45861),

Gene: Tesla_7 Start: 2048, Stop: 2533, Start Num: 2
Candidate Starts for Tesla_7:

(1, 1988), (Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489),

Gene: VasuNzinga_7 Start: 2048, Stop: 2542, Start Num: 2
Candidate Starts for VasuNzinga_7:
(Start: 2 @2048 has 20 MA's), (7, 2105), (9, 2126), (10, 2129), (12, 2168), (20, 2273), (21, 2279), (22, 2291), (29, 2384), (34, 2486), (35, 2489), (36, 2516),