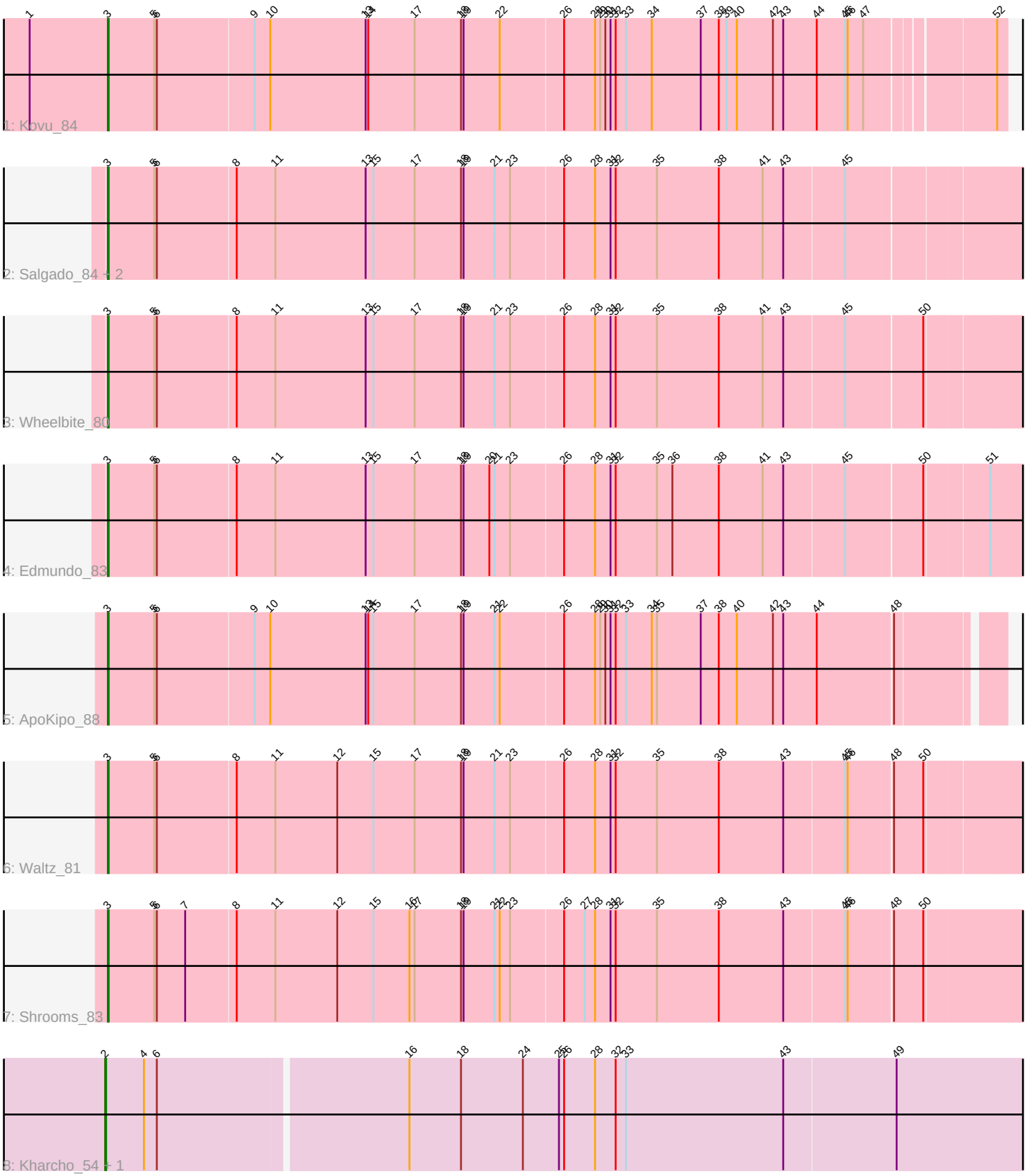
Pham 337318


1: Kovu_84
2: Salgado_84 - 2
3: Wheelbite_80
4: Edmundo_83
5: ApoKipo_88
6: Waltz_81
7: Shrooms_83
8: Kharcho_54 - 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 337318 Report

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

Pham number 337318 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Kovu_84
• Track 2 : Salgado_84, Laroye_84, LiSara_81
• Track 3 : Wheelbite_80
• Track 4 : Edmundo_83
• Track 5 : ApoKipo_88
• Track 6 : Waltz_81
• Track 7 : Shrooms_83
• Track 8 : Kharcho_54, Ottawa_54

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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ApoKipo_88, Edmundo_83, Kovu_84, Laroye_84, LiSara_81, Salgado_84, Shrooms_83, Waltz_81, Wheelbite_80,

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

Genes that do not have the "Most Annotated" start:
• Kharcho_54, Ottawa_54,

Summary by start number:

Start 2:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_54 (FM), Ottawa_54 (FM),

Start 3:
• Found in 9 of 11 (81.8%) of genes in pham

• Manual Annotations of this start: 9 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_88 (AL), Edmundo_83 (AL), Kovu_84 (AL), Laroye_84 (AL), LiSara_81 (AL), Salgado_84 (AL), Shrooms_83 (AL), Waltz_81 (AL), Wheelbite_80 (AL),

Summary by clusters:

There are 2 clusters represented in this pham: AL, FM,

Info for manual annotations of cluster AL:
•Start number 3 was manually annotated 9 times for cluster AL.

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

Gene Information:

Gene: ApoKipo_88 Start: 51579, Stop: 52592, Start Num: 3
Candidate Starts for ApoKipo_88:
(Start: 3 @51579 has 9 MA's), (5, 51633), (6, 51636), (9, 51747), (10, 51765), (13, 51876), (14, 51879), (15, 51885), (17, 51933), (18, 51987), (19, 51990), (21, 52026), (22, 52032), (26, 52104), (28, 52140), (29, 52146), (30, 52152), (31, 52158), (32, 52164), (33, 52176), (34, 52206), (35, 52212), (37, 52263), (38, 52284), (40, 52305), (42, 52347), (43, 52359), (44, 52398), (48, 52482),

Gene: Edmundo_83 Start: 50102, Stop: 51199, Start Num: 3
Candidate Starts for Edmundo_83:
(Start: 3 @50102 has 9 MA's), (5, 50156), (6, 50159), (8, 50249), (11, 50294), (13, 50399), (15, 50408), (17, 50456), (18, 50510), (19, 50513), (20, 50543), (21, 50549), (23, 50567), (26, 50627), (28, 50663), (31, 50681), (32, 50687), (35, 50735), (36, 50753), (38, 50807), (41, 50858), (43, 50882), (45, 50951), (50, 51035), (51, 51104),

Gene: Kharcho_54 Start: 30301, Stop: 31416, Start Num: 2
Candidate Starts for Kharcho_54:
(Start: 2 @30301 has 2 MA's), (4, 30346), (6, 30361), (16, 30643), (18, 30703), (24, 30775), (25, 30817), (26, 30823), (28, 30859), (32, 30883), (33, 30895), (43, 31078), (49, 31207),

Gene: Kovu_84 Start: 50885, Stop: 51901, Start Num: 3
Candidate Starts for Kovu_84:
(1, 50798), (Start: 3 @50885 has 9 MA's), (5, 50939), (6, 50942), (9, 51053), (10, 51071), (13, 51182), (14, 51185), (17, 51239), (18, 51293), (19, 51296), (22, 51338), (26, 51410), (28, 51446), (29, 51452), (30, 51458), (31, 51464), (32, 51470), (33, 51482), (34, 51512), (37, 51569), (38, 51590), (39, 51599), (40, 51611), (42, 51653), (43, 51665), (44, 51704), (45, 51737), (46, 51740), (47, 51758), (52, 51890),

Gene: Laroye_84 Start: 49874, Stop: 50971, Start Num: 3
Candidate Starts for Laroye_84:
(Start: 3 @49874 has 9 MA's), (5, 49928), (6, 49931), (8, 50021), (11, 50066), (13, 50171), (15, 50180), (17, 50228), (18, 50282), (19, 50285), (21, 50321), (23, 50339), (26, 50399), (28, 50435), (31, 50453), (32, 50459), (35, 50507), (38, 50579), (41, 50630), (43, 50654), (45, 50723),

Gene: LiSara_81 Start: 50008, Stop: 51105, Start Num: 3

Candidate Starts for LiSara_81:
(Start: 3 @50008 has 9 MA's), (5, 50062), (6, 50065), (8, 50155), (11, 50200), (13, 50305), (15, 50314), (17, 50362), (18, 50416), (19, 50419), (21, 50455), (23, 50473), (26, 50533), (28, 50569), (31, 50587), (32, 50593), (35, 50641), (38, 50713), (41, 50764), (43, 50788), (45, 50857),

Gene: Ottawa_54 Start: 30299, Stop: 31414, Start Num: 2
Candidate Starts for Ottawa_54:
(Start: 2 @30299 has 2 MA's), (4, 30344), (6, 30359), (16, 30641), (18, 30701), (24, 30773), (25, 30815), (26, 30821), (28, 30857), (32, 30881), (33, 30893), (43, 31076), (49, 31205),

Gene: Salgado_84 Start: 49678, Stop: 50775, Start Num: 3
Candidate Starts for Salgado_84:
(Start: 3 @49678 has 9 MA's), (5, 49732), (6, 49735), (8, 49825), (11, 49870), (13, 49975), (15, 49984), (17, 50032), (18, 50086), (19, 50089), (21, 50125), (23, 50143), (26, 50203), (28, 50239), (31, 50257), (32, 50263), (35, 50311), (38, 50383), (41, 50434), (43, 50458), (45, 50527),

Gene: Shrooms_83 Start: 49336, Stop: 50436, Start Num: 3
Candidate Starts for Shrooms_83:
(Start: 3 @49336 has 9 MA's), (5, 49390), (6, 49393), (7, 49426), (8, 49483), (11, 49528), (12, 49600), (15, 49642), (16, 49684), (17, 49690), (18, 49744), (19, 49747), (21, 49783), (22, 49789), (23, 49801), (26, 49861), (27, 49885), (28, 49897), (31, 49915), (32, 49921), (35, 49969), (38, 50041), (43, 50116), (45, 50185), (46, 50188), (48, 50236), (50, 50269),

Gene: Waltz_81 Start: 48128, Stop: 49225, Start Num: 3
Candidate Starts for Waltz_81:
(Start: 3 @48128 has 9 MA's), (5, 48182), (6, 48185), (8, 48275), (11, 48320), (12, 48392), (15, 48434), (17, 48482), (18, 48536), (19, 48539), (21, 48575), (23, 48593), (26, 48653), (28, 48689), (31, 48707), (32, 48713), (35, 48761), (38, 48833), (43, 48908), (45, 48977), (46, 48980), (48, 49028), (50, 49061),

Gene: Wheelbite_80 Start: 49836, Stop: 50933, Start Num: 3
Candidate Starts for Wheelbite_80:
(Start: 3 @49836 has 9 MA's), (5, 49890), (6, 49893), (8, 49983), (11, 50028), (13, 50133), (15, 50142), (17, 50190), (18, 50244), (19, 50247), (21, 50283), (23, 50301), (26, 50361), (28, 50397), (31, 50415), (32, 50421), (35, 50469), (38, 50541), (41, 50592), (43, 50616), (45, 50685), (50, 50769),