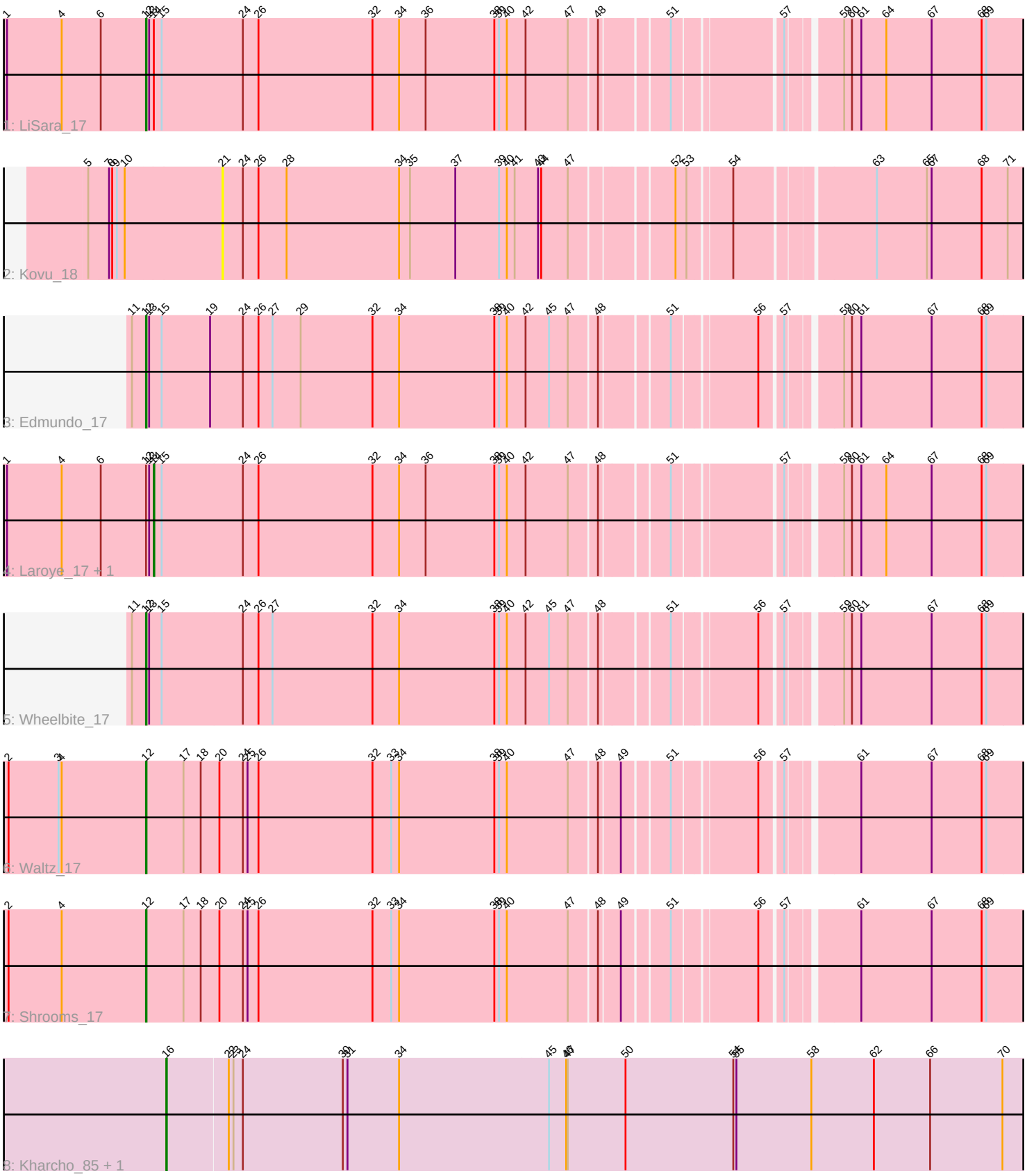
Pham 5968


1: LiSara_17
2: Kovu_18
3: Edmundo_17
4: Laroye_17 + 1
5: Wheelbite_17
6: Waltz_17
7: Shrooms_17
8: Kharcho_85 + 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 5968 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5968 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : LiSara_17
• Track 2 : Kovu_18
• Track 3 : Edmundo_17
• Track 4 : Laroye_17, Salgado_17
• Track 5 : Wheelbite_17
• Track 6 : Waltz_17
• Track 7 : Shrooms_17
• Track 8 : Kharcho_85, Ottawa_85

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

The start number called the most often in the published annotations is 12, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Edmundo_17, LiSara_17, Shrooms_17, Waltz_17, Wheelbite_17,

Genes that have the "Most Annotated" start but do not call it:
• Laroye_17, Salgado_17,

Genes that do not have the "Most Annotated" start:
• Kharcho_85, Kovu_18, Ottawa_85,

Summary by start number:

Start 12:
• Found in 7 of 10 (70.0%) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Edmundo_17 (AL), LiSara_17 (AL), Shrooms_17 (AL), Waltz_17 (AL), Wheelbite_17 (AL),

Start 14:
• Found in 3 of 10 (30.0%) of genes in pham

• Manual Annotations of this start: 2 of 9
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Laroye_17 (AL), Salgado_17 (AL),

Start 16:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_85 (FM), Ottawa_85 (FM),

Start 21:
• Found in 1 of 10 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kovu_18 (AL),

Summary by clusters:

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

Info for manual annotations of cluster AL:
•Start number 12 was manually annotated 5 times for cluster AL.
•Start number 14 was manually annotated 2 times for cluster AL.

Info for manual annotations of cluster FM:
•Start number 16 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: Edmundo_17 Start: 12878, Stop: 14485, Start Num: 12
Candidate Starts for Edmundo_17:
(11, 12851), (Start: 12 @12878 has 5 MA's), (13, 12884), (15, 12908), (19, 13001), (24, 13061), (26, 13091), (27, 13118), (29, 13172), (32, 13310), (34, 13361), (38, 13544), (39, 13553), (40, 13568), (42, 13604), (45, 13649), (47, 13685), (48, 13736), (51, 13853), (56, 14000), (57, 14039), (59, 14126), (60, 14141), (61, 14159), (67, 14294), (68, 14390), (69, 14399),

Gene: Kharcho_85 Start: 51099, Stop: 52754, Start Num: 16
Candidate Starts for Kharcho_85:
(Start: 16 @51099 has 2 MA's), (22, 51213), (23, 51222), (24, 51240), (30, 51432), (31, 51441), (34, 51540), (45, 51825), (46, 51858), (47, 51861), (50, 51972), (54, 52179), (55, 52185), (58, 52329), (62, 52449), (66, 52557), (70, 52695),

Gene: Kovu_18 Start: 12373, Stop: 13848, Start Num: 21
Candidate Starts for Kovu_18:
(5, 12121), (7, 12160), (8, 12166), (9, 12175), (10, 12190), (21, 12373), (24, 12412), (26, 12442), (28, 12496), (34, 12712), (35, 12733), (37, 12820), (39, 12904), (40, 12919), (41, 12934), (43, 12979), (44, 12985), (47, 13036), (52, 13213), (53, 13231), (54, 13306), (63, 13552), (65, 13648), (67, 13657), (68, 13753), (71, 13801),

Gene: Laroye_17 Start: 12602, Stop: 14194, Start Num: 14
Candidate Starts for Laroye_17:

(1, 12323), (4, 12428), (6, 12503), (Start: 12 @12587 has 5 MA's), (13, 12593), (Start: 14 @12602 has 2 MA's), (15, 12617), (24, 12770), (26, 12800), (32, 13019), (34, 13070), (36, 13121), (38, 13253), (39, 13262), (40, 13277), (42, 13313), (47, 13394), (48, 13445), (51, 13562), (57, 13748), (59, 13835), (60, 13850), (61, 13868), (64, 13916), (67, 14003), (68, 14099), (69, 14108),

Gene: LiSara_17 Start: 12642, Stop: 14249, Start Num: 12
Candidate Starts for LiSara_17:
(1, 12378), (4, 12483), (6, 12558), (Start: 12 @12642 has 5 MA's), (13, 12648), (Start: 14 @12657 has 2 MA's), (15, 12672), (24, 12825), (26, 12855), (32, 13074), (34, 13125), (36, 13176), (38, 13308), (39, 13317), (40, 13332), (42, 13368), (47, 13449), (48, 13500), (51, 13617), (57, 13803), (59, 13890), (60, 13905), (61, 13923), (64, 13971), (67, 14058), (68, 14154), (69, 14163),

Gene: Ottawa_85 Start: 51049, Stop: 52704, Start Num: 16
Candidate Starts for Ottawa_85:
(Start: 16 @51049 has 2 MA's), (22, 51163), (23, 51172), (24, 51190), (30, 51382), (31, 51391), (34, 51490), (45, 51775), (46, 51808), (47, 51811), (50, 51922), (54, 52129), (55, 52135), (58, 52279), (62, 52399), (66, 52507), (70, 52645),

Gene: Salgado_17 Start: 12610, Stop: 14202, Start Num: 14
Candidate Starts for Salgado_17:
(1, 12331), (4, 12436), (6, 12511), (Start: 12 @12595 has 5 MA's), (13, 12601), (Start: 14 @12610 has 2 MA's), (15, 12625), (24, 12778), (26, 12808), (32, 13027), (34, 13078), (36, 13129), (38, 13261), (39, 13270), (40, 13285), (42, 13321), (47, 13402), (48, 13453), (51, 13570), (57, 13756), (59, 13843), (60, 13858), (61, 13876), (64, 13924), (67, 14011), (68, 14107), (69, 14116),

Gene: Shrooms_17 Start: 12685, Stop: 14292, Start Num: 12
Candidate Starts for Shrooms_17:
(2, 12421), (4, 12523), (Start: 12 @12685 has 5 MA's), (17, 12757), (18, 12790), (20, 12823), (24, 12868), (25, 12877), (26, 12898), (32, 13117), (33, 13153), (34, 13168), (38, 13351), (39, 13360), (40, 13375), (47, 13492), (48, 13543), (49, 13579), (51, 13660), (56, 13807), (57, 13846), (61, 13966), (67, 14101), (68, 14197), (69, 14206),

Gene: Waltz_17 Start: 12747, Stop: 14354, Start Num: 12
Candidate Starts for Waltz_17:
(2, 12483), (3, 12579), (4, 12585), (Start: 12 @12747 has 5 MA's), (17, 12819), (18, 12852), (20, 12885), (24, 12930), (25, 12939), (26, 12960), (32, 13179), (33, 13215), (34, 13230), (38, 13413), (39, 13422), (40, 13437), (47, 13554), (48, 13605), (49, 13641), (51, 13722), (56, 13869), (57, 13908), (61, 14028), (67, 14163), (68, 14259), (69, 14268),

Gene: Wheelbite_17 Start: 12719, Stop: 14326, Start Num: 12
Candidate Starts for Wheelbite_17:
(11, 12692), (Start: 12 @12719 has 5 MA's), (13, 12725), (15, 12749), (24, 12902), (26, 12932), (27, 12959), (32, 13151), (34, 13202), (38, 13385), (39, 13394), (40, 13409), (42, 13445), (45, 13490), (47, 13526), (48, 13577), (51, 13694), (56, 13841), (57, 13880), (59, 13967), (60, 13982), (61, 14000), (67, 14135), (68, 14231), (69, 14240),