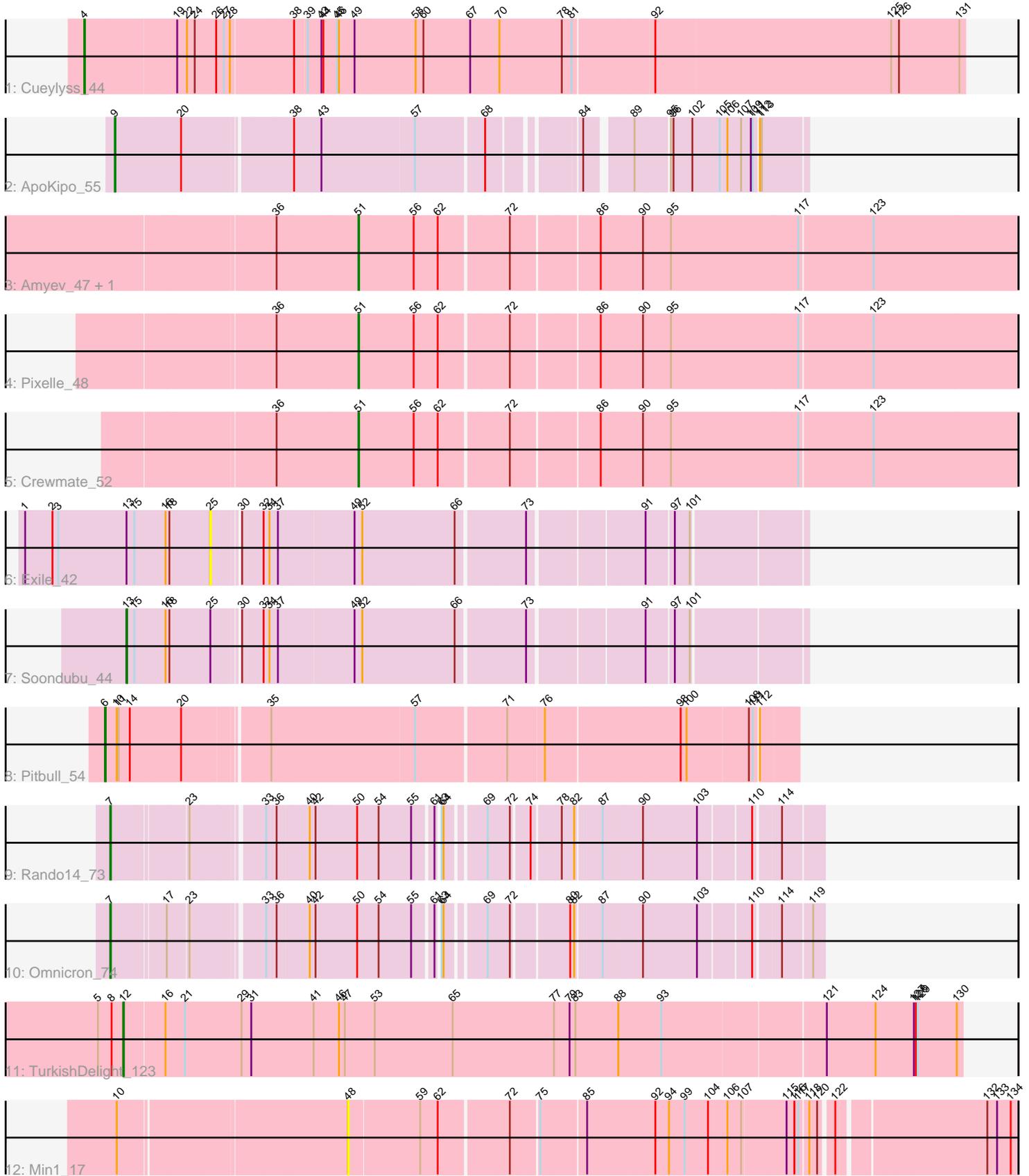# Pham 284327

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 284327 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284327 has 13 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Cueylyss_44
• Track 2 : ApoKipo_55
• Track 3 : Amyev_47, Tian_46
• Track 4 : Pixelle_48
• Track 5 : Crewmate_52
• Track 6 : Exile_42
• Track 7 : Soondubu_44
• Track 8 : Pitbull_54
• Track 9 : Rando14_73
• Track 10 : Omnicron_74
• Track 11 : TurkishDelight_123
• Track 12 : Min1_17

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

The start number called the most often in the published annotations is 51, it was called in 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amyev_47, Crewmate_52, Pixelle_48, Tian_46,

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

Genes that do not have the "Most Annotated" start:
• ApoKipo_55, Cueylyss_44, Exile_42, Min1_17, Omnicron_74, Pitbull_54, Rando14_73, Soondubu_44, TurkishDelight_123,

Summary by start number:

Start 4:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Cueylyss_44 (A1),

Start 6:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pitbull_54 (FQ),

Start 7:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Omnicron_74 (K5), Rando14_73 (K5),

Start 9:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_55 (AL),

Start 12:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TurkishDelight_123 (singleton),

Start 13:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Soondubu_44 (AZ6),

Start 25:
• Found in 2 of 13 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Exile_42 (AZ6),

Start 48:
• Found in 1 of 13 (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: Min1_17 (singleton),

Start 51:
• Found in 4 of 13 (30.8%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amyev_47 (AZ1), Crewmate_52 (AZ1), Pixelle_48 (AZ1), Tian_46 (AZ1),

Summary by clusters:

There are 7 clusters represented in this pham: FQ, singleton, AL, A1, K5, AZ1, AZ6,

Info for manual annotations of cluster A1:
•Start number 4 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AL:
•Start number 9 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster AZ1:
•Start number 51 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster AZ6:
•Start number 13 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster FQ:
•Start number 6 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster K5:
•Start number 7 was manually annotated 2 times for cluster K5.

Gene Information:

Gene: Amyev_47 Start: 35220, Stop: 36194, Start Num: 51
Candidate Starts for Amyev_47:
(36, 35097), (Start: 51 @35220 has 3 MA's), (56, 35304), (62, 35340), (72, 35439), (86, 35565), (90, 35625), (95, 35667), (117, 35862), (123, 35973),

Gene: ApoKipo_55 Start: 30521, Stop: 31468, Start Num: 9
Candidate Starts for ApoKipo_55:
(Start: 9 @30521 has 1 MA's), (20, 30617), (38, 30770), (43, 30812), (57, 30953), (68, 31052), (84, 31166), (89, 31226), (95, 31274), (96, 31277), (102, 31304), (105, 31346), (106, 31355), (107, 31376), (109, 31391), (111, 31394), (112, 31400), (113, 31403),

Gene: Crewmate_52 Start: 34132, Stop: 35106, Start Num: 51
Candidate Starts for Crewmate_52:
(36, 34009), (Start: 51 @34132 has 3 MA's), (56, 34216), (62, 34252), (72, 34351), (86, 34477), (90, 34537), (95, 34579), (117, 34774), (123, 34885),

Gene: Cueylyss_44 Start: 34031, Stop: 32712, Start Num: 4
Candidate Starts for Cueylyss_44:
(Start: 4 @34031 has 1 MA's), (19, 33896), (22, 33881), (24, 33869), (26, 33836), (27, 33824), (28, 33815), (38, 33725), (39, 33707), (43, 33686), (44, 33683), (45, 33662), (46, 33659), (49, 33635), (58, 33542), (60, 33530), (67, 33458), (70, 33413), (78, 33317), (81, 33302), (92, 33185), (125, 32825), (126, 32813), (131, 32720),

Gene: Exile_42 Start: 36122, Stop: 36952, Start Num: 25
Candidate Starts for Exile_42:
(1, 35837), (2, 35879), (3, 35888), (Start: 13 @35993 has 1 MA's), (15, 36005), (16, 36053), (18, 36059), (25, 36122), (30, 36158), (32, 36191), (34, 36200), (37, 36212), (49, 36323), (52, 36335), (66, 36473), (73, 36572), (91, 36731), (97, 36767), (101, 36788),

Gene: Min1_17 Start: 7577, Stop: 8530, Start Num: 48
Candidate Starts for Min1_17:
(10, 7247), (48, 7577), (59, 7682), (62, 7709), (72, 7811), (75, 7850), (85, 7916), (92, 8015), (94, 8036),
(99, 8060), (104, 8096), (106, 8126), (107, 8147), (115, 8213), (116, 8225), (117, 8231), (118, 8243),
(120, 8255), (122, 8273), (132, 8483), (133, 8498), (134, 8519),

Gene: Omnicron_74 Start: 50751, Stop: 51713, Start Num: 7
Candidate Starts for Omnicron_74:
(Start: 7 @50751 has 2 MA's), (17, 50829), (23, 50859), (33, 50958), (36, 50973), (40, 51018), (42,
51027), (50, 51090), (54, 51123), (55, 51171), (61, 51198), (63, 51201), (64, 51204), (69, 51255), (72,
51288), (80, 51366), (82, 51372), (87, 51408), (90, 51465), (103, 51543), (110, 51618), (114, 51654),
(119, 51696),

Gene: Pitbull_54 Start: 30102, Stop: 31100, Start Num: 6
Candidate Starts for Pitbull_54:
(Start: 6 @30102 has 1 MA's), (10, 30120), (11, 30123), (14, 30138), (20, 30213), (35, 30333), (57,
30546), (71, 30678), (76, 30732), (98, 30933), (100, 30942), (108, 31035), (111, 31041), (112, 31047),

Gene: Pixelle_48 Start: 35564, Stop: 36538, Start Num: 51
Candidate Starts for Pixelle_48:
(36, 35441), (Start: 51 @35564 has 3 MA's), (56, 35648), (62, 35684), (72, 35783), (86, 35909), (90,
35969), (95, 36011), (117, 36206), (123, 36317),

Gene: Rando14_73 Start: 49427, Stop: 50389, Start Num: 7
Candidate Starts for Rando14_73:
(Start: 7 @49427 has 2 MA's), (23, 49535), (33, 49634), (36, 49649), (40, 49694), (42, 49703), (50,
49766), (54, 49799), (55, 49847), (61, 49874), (63, 49877), (64, 49880), (69, 49931), (72, 49964), (74,
49988), (78, 50030), (82, 50048), (87, 50084), (90, 50141), (103, 50219), (110, 50294), (114, 50330),

Gene: Soondubu_44 Start: 36476, Stop: 37435, Start Num: 13
Candidate Starts for Soondubu_44:
(Start: 13 @36476 has 1 MA's), (15, 36488), (16, 36536), (18, 36542), (25, 36605), (30, 36641), (32,
36674), (34, 36683), (37, 36695), (49, 36806), (52, 36818), (66, 36956), (73, 37055), (91, 37214), (97,
37250), (101, 37271),

Gene: Tian_46 Start: 35220, Stop: 36194, Start Num: 51
Candidate Starts for Tian_46:
(36, 35097), (Start: 51 @35220 has 3 MA's), (56, 35304), (62, 35340), (72, 35439), (86, 35565), (90,
35625), (95, 35667), (117, 35862), (123, 35973),

Gene: TurkishDelight_123 Start: 90090, Stop: 91361, Start Num: 12
Candidate Starts for TurkishDelight_123:
(5, 90051), (8, 90072), (Start: 12 @90090 has 1 MA's), (16, 90150), (21, 90180), (29, 90267), (31,
90282), (41, 90378), (46, 90417), (47, 90426), (53, 90471), (65, 90591), (77, 90747), (79, 90771), (83,
90780), (88, 90846), (93, 90912), (121, 91155), (124, 91230), (127, 91287), (128, 91290), (129,
91293), (130, 91353),