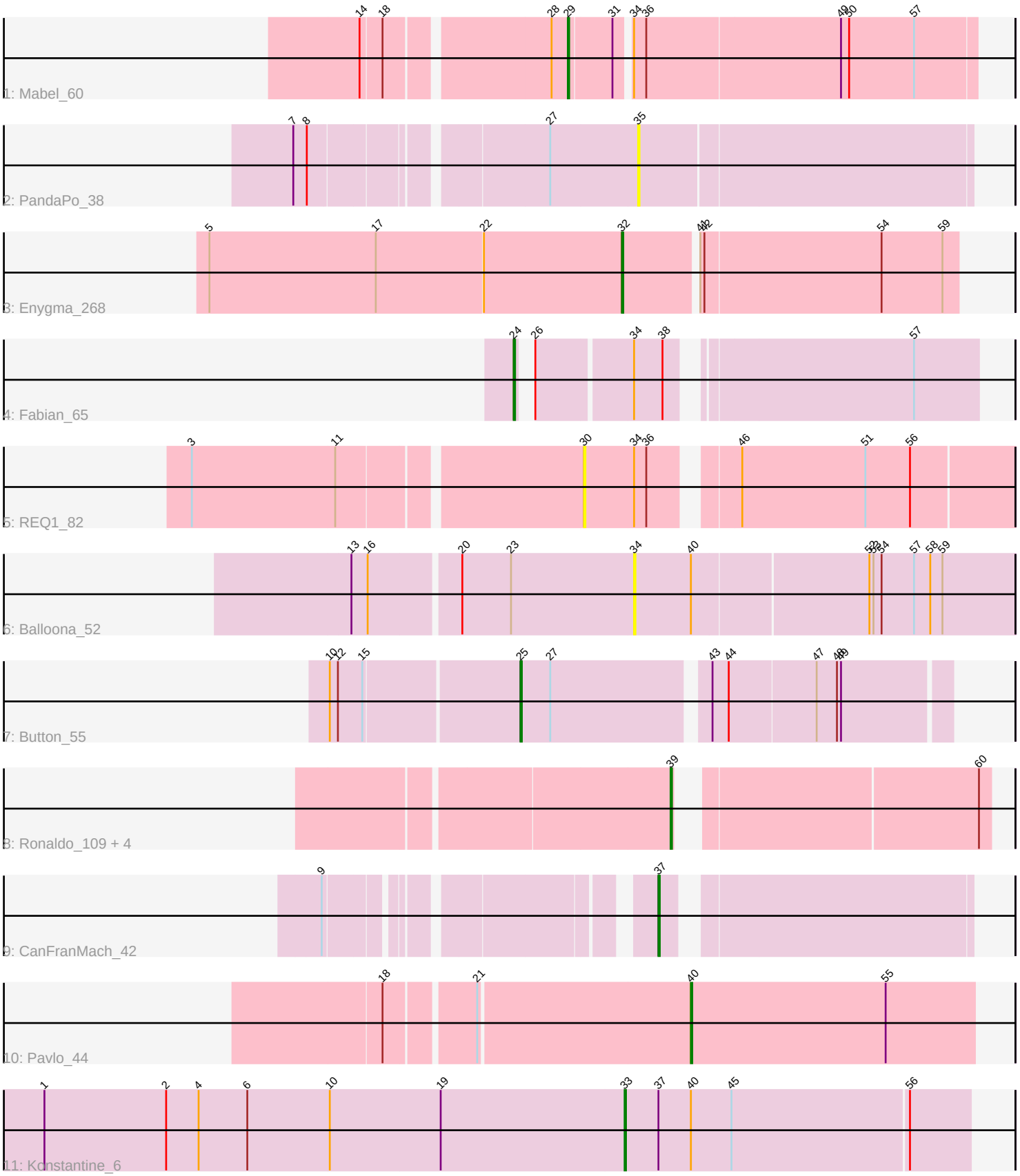
Pham 348136


1: Mabel_60
2: PandaPo_38
3: Enygma_268
4: Fabian_65
5: REQ1_82
6: Balloona_52
7: Button_55
8: Ronaldo_109 + 4
9: CanFranMach_42
10: Pavlo_44
11: Konstantine_6

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 348136 Report

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

Pham number 348136 has 15 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Mabel_60
• Track 2 : PandaPo_38
• Track 3 : Enygma_268
• Track 4 : Fabian_65
• Track 5 : REQ1_82
• Track 6 : Balloona_52
• Track 7 : Button_55
• Track 8 : Ronaldo_109, Fryberger_107, Guey18_112, Volt_111, Ziko_110
• Track 9 : CanFranMach_42
• Track 10 : Pavlo_44
• Track 11 : Konstantine_6

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

The start number called the most often in the published annotations is 39, it was called in 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fryberger_107, Guey18_112, Ronaldo_109, Volt_111, Ziko_110,

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

Genes that do not have the "Most Annotated" start:
• Balloona_52, Button_55, CanFranMach_42, Enygma_268, Fabian_65, Konstantine_6, Mabel_60, PandaPo_38, Pavlo_44, REQ1_82,

Summary by start number:

Start 24:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fabian_65 (BF),

Start 25:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Button_55 (CT),

Start 29:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mabel_60 (A11),

Start 30:
• Found in 1 of 15 (6.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ1_82 (CF),

Start 32:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Enygma_268 (BE2),

Start 33:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Konstantine_6 (H1),

Start 34:
• Found in 4 of 15 (26.7%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Balloona_52 (CT),

Start 35:
• Found in 1 of 15 (6.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PandaPo_38 (AZ1),

Start 37:
• Found in 2 of 15 (13.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 50.0% of time when present
• Phage (with cluster) where this start called: CanFranMach_42 (EB),

Start 39:
• Found in 5 of 15 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 12
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Fryberger_107 (DP), Guey18_112 (DP), Ronaldo_109 (DP), Volt_111 (DP), Ziko_110 (DP),

Start 40:
• Found in 3 of 15 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Pavlo_44 (ED1),

Summary by clusters:

There are 10 clusters represented in this pham: BF, A11, H1, CF, EB, ED1, BE2, AZ1, DP, CT,

Info for manual annotations of cluster A11:
•Start number 29 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster BE2:
•Start number 32 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BF:
•Start number 24 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster CT:
•Start number 25 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DP:
•Start number 39 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster EB:
•Start number 37 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster ED1:
•Start number 40 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster H1:
•Start number 33 was manually annotated 1 time for cluster H1.

Gene Information:

Gene: Balloona_52 Start: 38168, Stop: 37893, Start Num: 34
Candidate Starts for Balloona_52:
(13, 38369), (16, 38357), (20, 38294), (23, 38258), (34, 38168), (Start: 40 @38126 has 1 MA's), (52, 38000), (53, 37997), (54, 37991), (57, 37967), (58, 37955), (59, 37946),

Gene: Button_55 Start: 37507, Stop: 37208, Start Num: 25
Candidate Starts for Button_55:
(10, 37642), (12, 37636), (15, 37618), (Start: 25 @37507 has 1 MA's), (27, 37486), (43, 37378), (44, 37366), (47, 37303), (48, 37288), (49, 37285),

Gene: CanFranMach_42 Start: 29715, Stop: 29924, Start Num: 37
Candidate Starts for CanFranMach_42:
(9, 29517), (Start: 37 @29715 has 1 MA's),

Gene: Enygma_268 Start: 121650, Stop: 121411, Start Num: 32
Candidate Starts for Enygma_268:
(5, 121953), (17, 121830), (22, 121752), (Start: 32 @121650 has 1 MA's), (41, 121599), (42, 121596), (54, 121467), (59, 121422),

Gene: Fabian_65 Start: 36190, Stop: 36489, Start Num: 24
Candidate Starts for Fabian_65:
(Start: 24 @36190 has 1 MA's), (26, 36193), (34, 36259), (38, 36280), (57, 36442),

Gene: Fryberger_107 Start: 52902, Stop: 53111, Start Num: 39
Candidate Starts for Fryberger_107:
(Start: 39 @52902 has 5 MA's), (60, 53103),

Gene: Guey18_112 Start: 54225, Stop: 54434, Start Num: 39
Candidate Starts for Guey18_112:
(Start: 39 @54225 has 5 MA's), (60, 54426),

Gene: Konstantine_6 Start: 4385, Stop: 4636, Start Num: 33
Candidate Starts for Konstantine_6:
(1, 3959), (2, 4049), (4, 4073), (6, 4109), (10, 4169), (19, 4250), (Start: 33 @4385 has 1 MA's), (Start: 37 @4409 has 1 MA's), (Start: 40 @4433 has 1 MA's), (45, 4463), (56, 4592),

Gene: Mabel_60 Start: 38750, Stop: 38463, Start Num: 29
Candidate Starts for Mabel_60:
(14, 38888), (18, 38873), (28, 38762), (Start: 29 @38750 has 1 MA's), (31, 38720), (34, 38711), (36, 38702), (49, 38561), (50, 38555), (57, 38507),

Gene: PandaPo_38 Start: 27626, Stop: 27865, Start Num: 35
Candidate Starts for PandaPo_38:
(7, 27398), (8, 27407), (27, 27563), (35, 27626),

Gene: Pavlo_44 Start: 22885, Stop: 22676, Start Num: 40
Candidate Starts for Pavlo_44:
(18, 23098), (21, 23038), (Start: 40 @22885 has 1 MA's), (55, 22741),

Gene: REQ1_82 Start: 49241, Stop: 49534, Start Num: 30
Candidate Starts for REQ1_82:
(3, 48968), (11, 49073), (30, 49241), (34, 49277), (36, 49286), (46, 49337), (51, 49427), (56, 49460),

Gene: Ronaldo_109 Start: 53807, Stop: 54016, Start Num: 39
Candidate Starts for Ronaldo_109:
(Start: 39 @53807 has 5 MA's), (60, 54008),

Gene: Volt_111 Start: 53971, Stop: 54180, Start Num: 39
Candidate Starts for Volt_111:
(Start: 39 @53971 has 5 MA's), (60, 54172),

Gene: Ziko_110 Start: 53813, Stop: 54022, Start Num: 39

Candidate Starts for Ziko_110:
(Start: 39 @53813 has 5 MA's), (60, 54014),