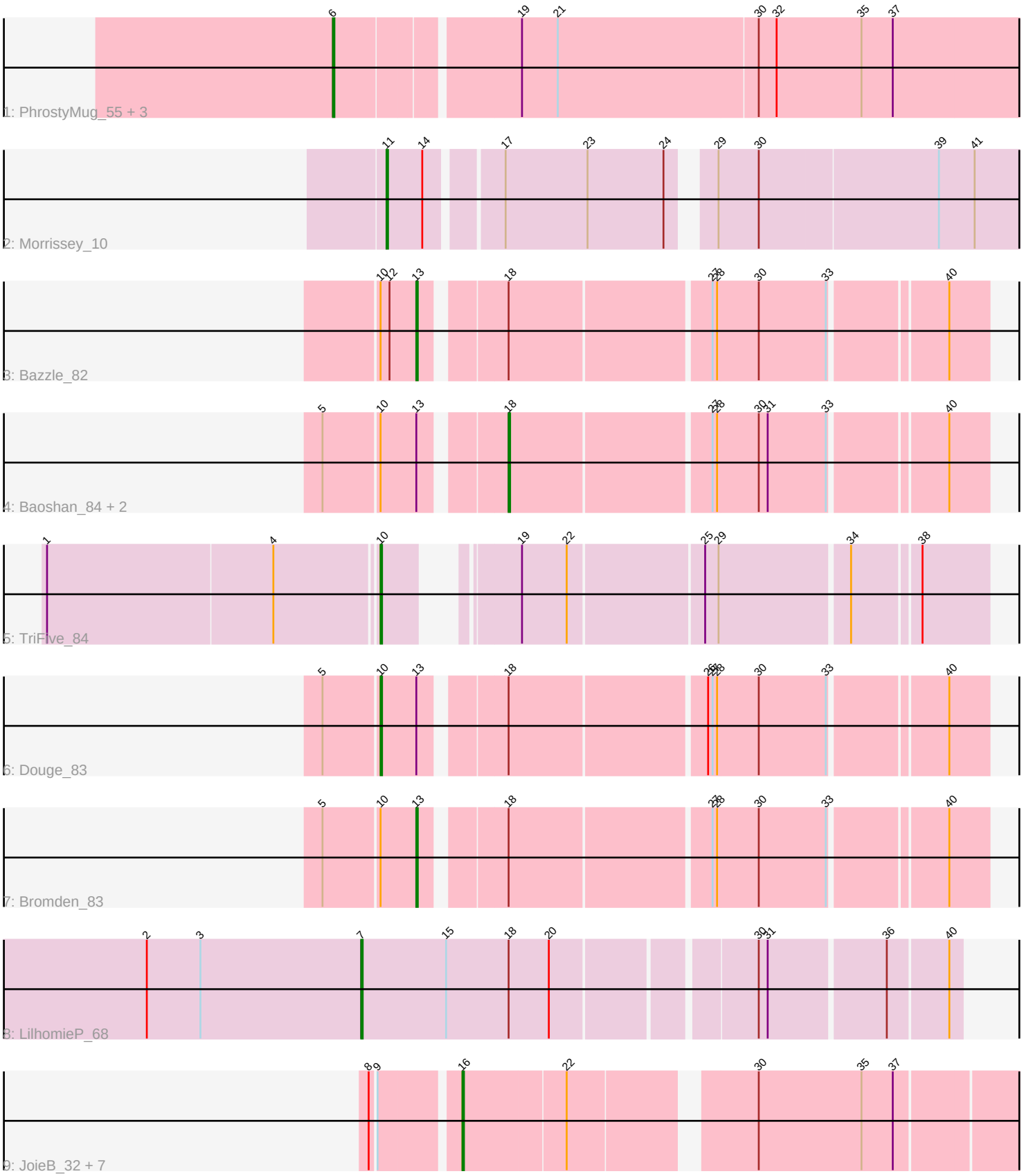
Pham 296947


6
19
21
30
32
35
37
1: PhrostyMug_55 + 3
11
14
17
23
24
29
30
39
41
2: Morrissey_10
10
12
13
18
30
33
40
3: Bazzle_82
5
10
13
18
30
31
33
40
4: Baoshan_84 + 2
1
4
10
19
22
25
29
34
38
5: TriFive_84
5
10
13
18
30
33
40
6: Douge_83
5
10
13
18
30
33
40
7: Bromden_83
2
3
7
15
18
20
30
31
36
40
8: LilhomieP_68
8
9
16
22
30
35
37
9: JoieB_32 + 7

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 296947 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296947 has 21 members, 2 are drafts.

Phages represented in each track:
• Track 1 : PhrostyMug_55, Aeneas_59, Mule_54, Smairt_59
• Track 2 : Morrissey_10
• Track 3 : Bazzle_82
• Track 4 : Baoshan_84, ZhongYanYuan_82, DHan_88
• Track 5 : TriFive_84
• Track 6 : Douge_83
• Track 7 : Bromden_83
• Track 8 : LilhomieP_68
• Track 9 : JoieB_32, Beelzebub_35, Huphlepuff_33, Clarkson_32, VasuNzinga_31, Pringar_31, FeliMaine_32, LittleLaf_31

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

The start number called the most often in the published annotations is 16, it was called in 8 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beelzebub_35, Clarkson_32, FeliMaine_32, Huphlepuff_33, JoieB_32, LittleLaf_31, Pringar_31, VasuNzinga_31,

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

Genes that do not have the "Most Annotated" start:
• Aeneas_59, Baoshan_84, Bazzle_82, Bromden_83, DHan_88, Douge_83, LilhomieP_68, Morrissey_10, Mule_54, PhrostyMug_55, Smairt_59, TriFive_84, ZhongYanYuan_82,

Summary by start number:

Start 6:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 4 of 19
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aeneas_59 (A1), Mule_54 (A1), PhrostyMug_55 (A1), Smairt_59 (A1),

Start 7:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilhomieP_68 (M1),

Start 10:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Douge_83 (L4), TriFive_84 (L3),

Start 11:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Morrissey_10 (CD),

Start 13:
• Found in 6 of 21 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Bazzle_82 (L2), Bromden_83 (L4),

Start 16:
• Found in 8 of 21 (38.1%) of genes in pham
• Manual Annotations of this start: 8 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_35 (S), Clarkson_32 (S), FeliMaine_32 (S), Huphlepuff_33 (S), JoieB_32 (S), LittleLaf_31 (S), Pringar_31 (S), VasuNzinga_31 (S),

Start 18:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Baoshan_84 (L2), DHan_88 (L2), ZhongYanYuan_82 (L2),

Summary by clusters:

There are 7 clusters represented in this pham: L4, CD, A1, S, M1, L3, L2,

Info for manual annotations of cluster A1:
•Start number 6 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster CD:
•Start number 11 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster L2:

•Start number 13 was manually annotated 1 time for cluster L2.
•Start number 18 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:
•Start number 10 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:
•Start number 10 was manually annotated 1 time for cluster L4.
•Start number 13 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 7 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster S:
•Start number 16 was manually annotated 8 times for cluster S.

Gene Information:

Gene: Aeneas_59 Start: 40763, Stop: 40299, Start Num: 6
Candidate Starts for Aeneas_59:
(Start: 6 @40763 has 4 MA's), (19, 40649), (21, 40625), (30, 40493), (32, 40481), (35, 40424), (37, 40403),

Gene: Baoshan_84 Start: 55413, Stop: 55715, Start Num: 18
Candidate Starts for Baoshan_84:
(5, 55305), (Start: 10 @55341 has 2 MA's), (Start: 13 @55365 has 2 MA's), (Start: 18 @55413 has 1 MA's), (27, 55542), (28, 55545), (30, 55572), (31, 55578), (33, 55617), (40, 55689),

Gene: Bazzle_82 Start: 55265, Stop: 55615, Start Num: 13
Candidate Starts for Bazzle_82:
(Start: 10 @55241 has 2 MA's), (12, 55247), (Start: 13 @55265 has 2 MA's), (Start: 18 @55313 has 1 MA's), (27, 55442), (28, 55445), (30, 55472), (33, 55517), (40, 55589),

Gene: Beelzebub_35 Start: 9572, Stop: 9919, Start Num: 16
Candidate Starts for Beelzebub_35:
(8, 9521), (9, 9524), (Start: 16 @9572 has 8 MA's), (22, 9638), (30, 9746), (35, 9815), (37, 9836),

Gene: Bromden_83 Start: 54891, Stop: 55241, Start Num: 13
Candidate Starts for Bromden_83:
(5, 54831), (Start: 10 @54867 has 2 MA's), (Start: 13 @54891 has 2 MA's), (Start: 18 @54939 has 1 MA's), (27, 55068), (28, 55071), (30, 55098), (33, 55143), (40, 55215),

Gene: Clarkson_32 Start: 9273, Stop: 9620, Start Num: 16
Candidate Starts for Clarkson_32:
(8, 9222), (9, 9225), (Start: 16 @9273 has 8 MA's), (22, 9339), (30, 9447), (35, 9516), (37, 9537),

Gene: DHan_88 Start: 55476, Stop: 55778, Start Num: 18
Candidate Starts for DHan_88:
(5, 55368), (Start: 10 @55404 has 2 MA's), (Start: 13 @55428 has 2 MA's), (Start: 18 @55476 has 1 MA's), (27, 55605), (28, 55608), (30, 55635), (31, 55641), (33, 55680), (40, 55752),

Gene: Douge_83 Start: 53819, Stop: 54193, Start Num: 10
Candidate Starts for Douge_83:
(5, 53783), (Start: 10 @53819 has 2 MA's), (Start: 13 @53843 has 2 MA's), (Start: 18 @53891 has 1 MA's), (26, 54017), (27, 54020), (28, 54023), (30, 54050), (33, 54095), (40, 54167),

Gene: FeliMaine_32 Start: 9274, Stop: 9621, Start Num: 16
Candidate Starts for FeliMaine_32:
(8, 9223), (9, 9226), (Start: 16 @9274 has 8 MA's), (22, 9340), (30, 9448), (35, 9517), (37, 9538),

Gene: Huphlepuff_33 Start: 9078, Stop: 9425, Start Num: 16
Candidate Starts for Huphlepuff_33:
(8, 9027), (9, 9030), (Start: 16 @9078 has 8 MA's), (22, 9144), (30, 9252), (35, 9321), (37, 9342),

Gene: JoieB_32 Start: 9297, Stop: 9644, Start Num: 16
Candidate Starts for JoieB_32:
(8, 9246), (9, 9249), (Start: 16 @9297 has 8 MA's), (22, 9363), (30, 9471), (35, 9540), (37, 9561),

Gene: LilhomieP_68 Start: 44966, Stop: 45346, Start Num: 7
Candidate Starts for LilhomieP_68:
(2, 44822), (3, 44858), (Start: 7 @44966 has 1 MA's), (15, 45023), (Start: 18 @45065 has 1 MA's), (20, 45092), (30, 45218), (31, 45224), (36, 45299), (40, 45338),

Gene: LittleLaf_31 Start: 9003, Stop: 9350, Start Num: 16
Candidate Starts for LittleLaf_31:
(8, 8952), (9, 8955), (Start: 16 @9003 has 8 MA's), (22, 9069), (30, 9177), (35, 9246), (37, 9267),

Gene: Morrissey_10 Start: 7151, Stop: 7570, Start Num: 11
Candidate Starts for Morrissey_10:
(Start: 11 @7151 has 1 MA's), (14, 7175), (17, 7220), (23, 7274), (24, 7325), (29, 7346), (30, 7373), (39, 7490), (41, 7514),

Gene: Mule_54 Start: 38049, Stop: 37585, Start Num: 6
Candidate Starts for Mule_54:
(Start: 6 @38049 has 4 MA's), (19, 37935), (21, 37911), (30, 37779), (32, 37767), (35, 37710), (37, 37689),

Gene: PhrostyMug_55 Start: 40223, Stop: 39759, Start Num: 6
Candidate Starts for PhrostyMug_55:
(Start: 6 @40223 has 4 MA's), (19, 40109), (21, 40085), (30, 39953), (32, 39941), (35, 39884), (37, 39863),

Gene: Pringar_31 Start: 8903, Stop: 9250, Start Num: 16
Candidate Starts for Pringar_31:
(8, 8852), (9, 8855), (Start: 16 @8903 has 8 MA's), (22, 8969), (30, 9077), (35, 9146), (37, 9167),

Gene: Smairt_59 Start: 41216, Stop: 40752, Start Num: 6
Candidate Starts for Smairt_59:
(Start: 6 @41216 has 4 MA's), (19, 41102), (21, 41078), (30, 40946), (32, 40934), (35, 40877), (37, 40856),

Gene: TriFive_84 Start: 55170, Stop: 55526, Start Num: 10
Candidate Starts for TriFive_84:

(1, 54954), (4, 55104), (Start: 10 @55170 has 2 MA's), (19, 55230), (22, 55260), (25, 55347), (29, 55356), (34, 55440), (38, 55482),

Gene: VasuNzinga_31 Start: 8480, Stop: 8827, Start Num: 16
Candidate Starts for VasuNzinga_31:
(8, 8429), (9, 8432), (Start: 16 @8480 has 8 MA's), (22, 8546), (30, 8654), (35, 8723), (37, 8744),

Gene: ZhongYanYuan_82 Start: 54996, Stop: 55298, Start Num: 18
Candidate Starts for ZhongYanYuan_82:
(5, 54888), (Start: 10 @54924 has 2 MA's), (Start: 13 @54948 has 2 MA's), (Start: 18 @54996 has 1 MA's), (27, 55125), (28, 55128), (30, 55155), (31, 55161), (33, 55200), (40, 55272),