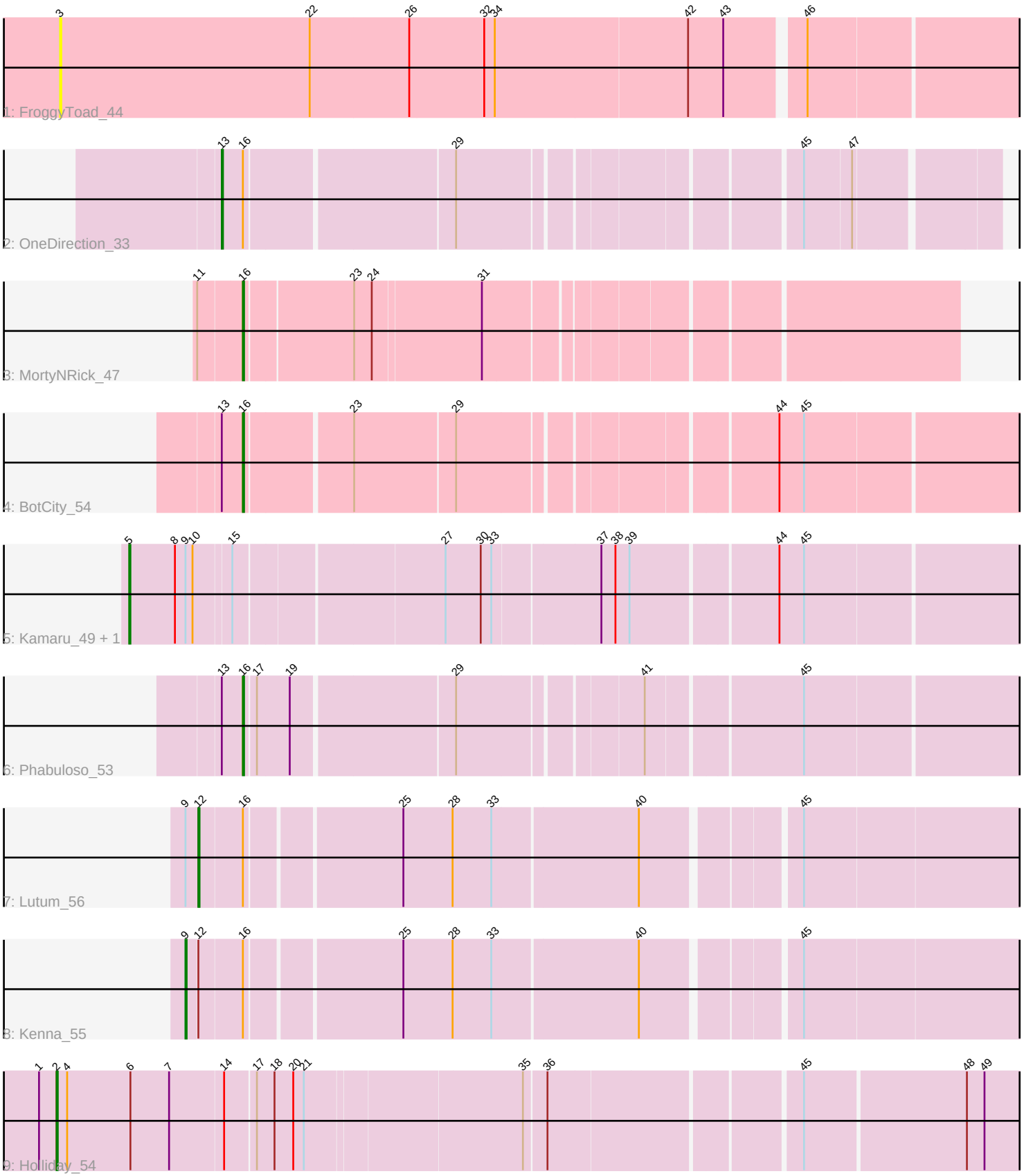
Pham 346394


3
22
26
32
34
42
43
46
1: FroggyToad_44
13
16
29
45
47
2: OneDirection_33
11
16
23
24
31
3: MortyNRick_47
13
16
23
29
44
45
4: BotCity_54
5
8
9
10
15
27
30
33
37
38
39
44
45
5: Kamaru_49 + 1
13
16
17
19
29
41
45
6: Phabuloso_53
9
12
16
25
28
33
40
45
7: Lutum_56
9
12
16
25
28
33
40
45
8: Kenna_55
1
2
4
6
7
14
17
18
20
21
35
36
45
48
49
9: Holliday_54

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 346394 Report

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

Pham number 346394 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : FroggyToad_44
• Track 2 : OneDirection_33
• Track 3 : MortyNRick_47
• Track 4 : BotCity_54
• Track 5 : Kamaru_49, LitninMcQueen_48
• Track 6 : Phabuloso_53
• Track 7 : Lutum_56
• Track 8 : Kenna_55
• Track 9 : Holliday_54

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

Genes that call this "Most Annotated" start:
• BotCity_54, MortyNRick_47, Phabuloso_53,

Genes that have the "Most Annotated" start but do not call it:
• Kenna_55, Lutum_56, OneDirection_33,

Genes that do not have the "Most Annotated" start:
• FroggyToad_44, Holliday_54, Kamaru_49, LitninMcQueen_48,

Summary by start number:

Start 2:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Holliday_54 (DN1),

Start 3:
• 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: FroggyToad_44 (CZ2),

Start 5:
• 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: Kamaru_49 (DN1), LitninMcQueen_48 (DN1),

Start 9:
• Found in 4 of 10 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Kenna_55 (DN1),

Start 12:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lutum_56 (DN1),

Start 13:
• Found in 3 of 10 (30.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 33.3% of time when present
• Phage (with cluster) where this start called: OneDirection_33 (CZ6),

Start 16:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 3 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BotCity_54 (DN), MortyNRick_47 (DN), Phabuloso_53 (DN1),

Summary by clusters:

There are 4 clusters represented in this pham: CZ2, DN1, DN, CZ6,

Info for manual annotations of cluster CZ6:
•Start number 13 was manually annotated 1 time for cluster CZ6.

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

Info for manual annotations of cluster DN1:
•Start number 2 was manually annotated 1 time for cluster DN1.
•Start number 5 was manually annotated 2 times for cluster DN1.
•Start number 9 was manually annotated 1 time for cluster DN1.
•Start number 12 was manually annotated 1 time for cluster DN1.
•Start number 16 was manually annotated 1 time for cluster DN1.

Gene Information:

Gene: BotCity_54 Start: 36275, Stop: 35658, Start Num: 16
Candidate Starts for BotCity_54:
(Start: 13 @36293 has 1 MA's), (Start: 16 @36275 has 3 MA's), (23, 36191), (29, 36107), (44, 35861), (45, 35840),

Gene: FroggyToad_44 Start: 32653, Stop: 31853, Start Num: 3
Candidate Starts for FroggyToad_44:
(3, 32653), (22, 32440), (26, 32356), (32, 32293), (34, 32284), (42, 32122), (43, 32092), (46, 32032),

Gene: Holliday_54 Start: 36922, Stop: 36092, Start Num: 2
Candidate Starts for Holliday_54:
(1, 36937), (Start: 2 @36922 has 1 MA's), (4, 36913), (6, 36859), (7, 36826), (14, 36781), (17, 36757), (18, 36742), (20, 36727), (21, 36718), (35, 36541), (36, 36523), (45, 36325), (48, 36193), (49, 36178),

Gene: Kamaru_49 Start: 35377, Stop: 34655, Start Num: 5
Candidate Starts for Kamaru_49:
(Start: 5 @35377 has 2 MA's), (8, 35338), (Start: 9 @35329 has 1 MA's), (10, 35323), (15, 35293), (27, 35125), (30, 35095), (33, 35086), (37, 34999), (38, 34987), (39, 34975), (44, 34858), (45, 34837),

Gene: Kenna_55 Start: 36730, Stop: 36059, Start Num: 9
Candidate Starts for Kenna_55:
(Start: 9 @36730 has 1 MA's), (Start: 12 @36721 has 1 MA's), (Start: 16 @36685 has 3 MA's), (25, 36562), (28, 36520), (33, 36487), (40, 36367), (45, 36247),

Gene: LitninMcQueen_48 Start: 35126, Stop: 34404, Start Num: 5
Candidate Starts for LitninMcQueen_48:
(Start: 5 @35126 has 2 MA's), (8, 35087), (Start: 9 @35078 has 1 MA's), (10, 35072), (15, 35042), (27, 34874), (30, 34844), (33, 34835), (37, 34748), (38, 34736), (39, 34724), (44, 34607), (45, 34586),

Gene: Lutum_56 Start: 36721, Stop: 36059, Start Num: 12
Candidate Starts for Lutum_56:
(Start: 9 @36730 has 1 MA's), (Start: 12 @36721 has 1 MA's), (Start: 16 @36685 has 3 MA's), (25, 36562), (28, 36520), (33, 36487), (40, 36367), (45, 36247),

Gene: MortyNRick_47 Start: 35781, Stop: 35218, Start Num: 16
Candidate Starts for MortyNRick_47:
(11, 35817), (Start: 16 @35781 has 3 MA's), (23, 35694), (24, 35679), (31, 35589),

Gene: OneDirection_33 Start: 27162, Stop: 26563, Start Num: 13
Candidate Starts for OneDirection_33:
(Start: 13 @27162 has 1 MA's), (Start: 16 @27144 has 3 MA's), (29, 26976), (45, 26715), (47, 26676),

Gene: Phabuloso_53 Start: 36106, Stop: 35489, Start Num: 16
Candidate Starts for Phabuloso_53:
(Start: 13 @36124 has 1 MA's), (Start: 16 @36106 has 3 MA's), (17, 36097), (19, 36070), (29, 35938), (41, 35794), (45, 35671),