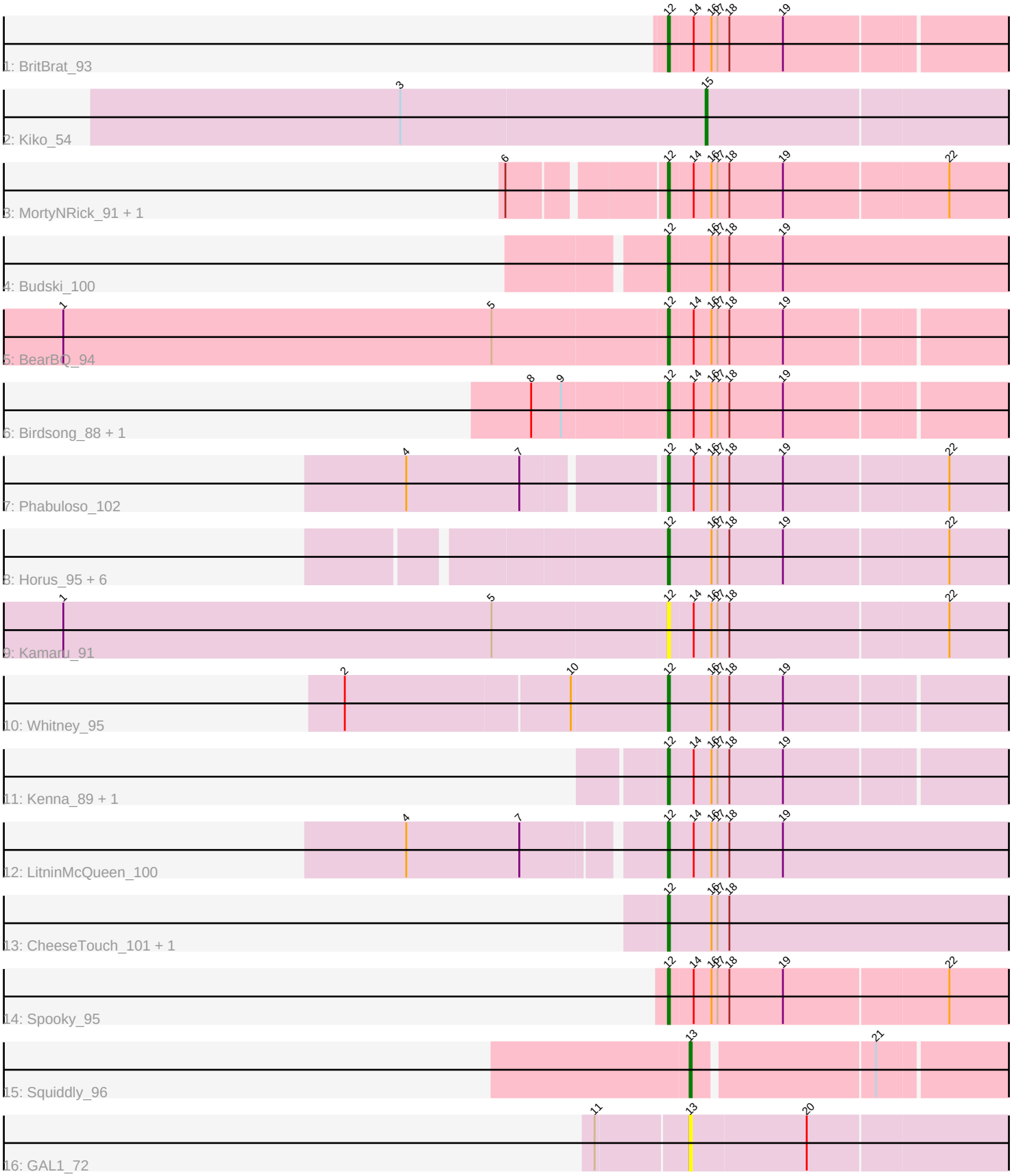
Pham 3439


1: BritBrat_93
2: Kiko_54
3: MortyNRick_91 + 1
4: Budski_100
5: BearBQ_94
6: Birdsong_88 + 1
7: Phabuloso_102
8: Horus_95 + 6
9: Kamaru_91
10: Whitney_95
11: Kenna_89 + 1
12: LitninMcQueen_100
13: CheeseTouch_101 + 1
14: Spooky_95
15: Squiddly_96
16: GAL1_72

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 3439 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3439 has 26 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BritBrat_93
• Track 2 : Kiko_54
• Track 3 : MortyNRick_91, ODay_105
• Track 4 : Budski_100
• Track 5 : BearBQ_94
• Track 6 : Birdsong_88, Asapag_88
• Track 7 : Phabuloso_102
• Track 8 : Horus_95, Crater_94, Phistory_93, Apricot_94, Leroy_95, Periwinkle_103, Ecliptus_102
• Track 9 : Kamaru_91
• Track 10 : Whitney_95
• Track 11 : Kenna_89, Lutum_95
• Track 12 : LitninMcQueen_100
• Track 13 : CheeseTouch_101, Getalong_96
• Track 14 : Spooky_95
• Track 15 : Squiddly_96
• Track 16 : GAL1_72

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 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apricot_94, Asapag_88, BearBQ_94, Birdsong_88, BritBrat_93, Budski_100, CheeseTouch_101, Crater_94, Ecliptus_102, Getalong_96, Horus_95, Kamaru_91, Kenna_89, Leroy_95, LitninMcQueen_100, Lutum_95, MortyNRick_91, ODay_105, Periwinkle_103, Phabuloso_102, Phistory_93, Spooky_95, Whitney_95,

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

Genes that do not have the "Most Annotated" start:
• GAL1_72, Kiko_54, Squiddly_96,

Summary by start number:

Start 12:
• Found in 23 of 26 (88.5%) of genes in pham
• Manual Annotations of this start: 21 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_94 (DN3), Asapag_88 (DN1), BearBQ_94 (DN), Birdsong_88 (DN), BritBrat_93 (CY2), Budski_100 (DN), CheeseTouch_101 (DN1), Crater_94 (DN3), Ecliptus_102 (DN), Getalong_96 (DN1), Horus_95 (DN1), Kamaru_91 (DN1), Kenna_89 (DN1), Leroy_95 (DN1), LitninMcQueen_100 (DN1), Lutum_95 (DN1), MortyNRick_91 (DN), ODay_105 (DN), Periwinkle_103 (DN1), Phabuloso_102 (DN1), Phistory_93 (DN1), Spooky_95 (DN2), Whitney_95 (DN1),

Start 13:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_72 (singleton), Squiddly_96 (DN2),

Start 15:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_54 (DB),

Summary by clusters:

There are 7 clusters represented in this pham: DN, CY2, singleton, DB, DN1, DN3, DN2,

Info for manual annotations of cluster CY2:
•Start number 12 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DB:
•Start number 15 was manually annotated 1 time for cluster DB.

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

Info for manual annotations of cluster DN1:
•Start number 12 was manually annotated 12 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 12 was manually annotated 1 time for cluster DN2.
•Start number 13 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 12 was manually annotated 2 times for cluster DN3.

Gene Information:

Gene: Apricot_94 Start: 49812, Stop: 50036, Start Num: 12
Candidate Starts for Apricot_94:
(Start: 12 @49812 has 21 MA's), (16, 49833), (17, 49836), (18, 49842), (19, 49869), (22, 49950),

Gene: Asapag_88 Start: 50413, Stop: 50634, Start Num: 12
Candidate Starts for Asapag_88:
(8, 50347), (9, 50362), (Start: 12 @50413 has 21 MA's), (14, 50425), (16, 50434), (17, 50437), (18, 50443), (19, 50470),

Gene: BearBQ_94 Start: 52254, Stop: 52475, Start Num: 12
Candidate Starts for BearBQ_94:
(1, 51951), (5, 52167), (Start: 12 @52254 has 21 MA's), (14, 52266), (16, 52275), (17, 52278), (18, 52284), (19, 52311),

Gene: Birdsong_88 Start: 50149, Stop: 50370, Start Num: 12
Candidate Starts for Birdsong_88:
(8, 50083), (9, 50098), (Start: 12 @50149 has 21 MA's), (14, 50161), (16, 50170), (17, 50173), (18, 50179), (19, 50206),

Gene: BritBrat_93 Start: 53375, Stop: 53602, Start Num: 12
Candidate Starts for BritBrat_93:
(Start: 12 @53375 has 21 MA's), (14, 53387), (16, 53396), (17, 53399), (18, 53405), (19, 53432),

Gene: Budski_100 Start: 53191, Stop: 53412, Start Num: 12
Candidate Starts for Budski_100:
(Start: 12 @53191 has 21 MA's), (16, 53212), (17, 53215), (18, 53221), (19, 53248),

Gene: CheeseTouch_101 Start: 49751, Stop: 49972, Start Num: 12
Candidate Starts for CheeseTouch_101:
(Start: 12 @49751 has 21 MA's), (16, 49772), (17, 49775), (18, 49781),

Gene: Crater_94 Start: 50156, Stop: 50380, Start Num: 12
Candidate Starts for Crater_94:
(Start: 12 @50156 has 21 MA's), (16, 50177), (17, 50180), (18, 50186), (19, 50213), (22, 50294),

Gene: Ecliptus_102 Start: 53355, Stop: 53579, Start Num: 12
Candidate Starts for Ecliptus_102:
(Start: 12 @53355 has 21 MA's), (16, 53376), (17, 53379), (18, 53385), (19, 53412), (22, 53493),

Gene: GAL1_72 Start: 45399, Stop: 45611, Start Num: 13
Candidate Starts for GAL1_72:
(11, 45354), (Start: 13 @45399 has 1 MA's), (20, 45456),

Gene: Getalong_96 Start: 52801, Stop: 53022, Start Num: 12
Candidate Starts for Getalong_96:
(Start: 12 @52801 has 21 MA's), (16, 52822), (17, 52825), (18, 52831),

Gene: Horus_95 Start: 52377, Stop: 52601, Start Num: 12
Candidate Starts for Horus_95:
(Start: 12 @52377 has 21 MA's), (16, 52398), (17, 52401), (18, 52407), (19, 52434), (22, 52515),

Gene: Kamaru_91 Start: 49833, Stop: 50057, Start Num: 12
Candidate Starts for Kamaru_91:
(1, 49530), (5, 49746), (Start: 12 @49833 has 21 MA's), (14, 49845), (16, 49854), (17, 49857), (18, 49863), (22, 49971),

Gene: Kenna_89 Start: 49772, Stop: 49993, Start Num: 12
Candidate Starts for Kenna_89:
(Start: 12 @49772 has 21 MA's), (14, 49784), (16, 49793), (17, 49796), (18, 49802), (19, 49829),

Gene: Kiko_54 Start: 38477, Stop: 38677, Start Num: 15
Candidate Starts for Kiko_54:
(3, 38324), (Start: 15 @38477 has 1 MA's),

Gene: Leroy_95 Start: 50572, Stop: 50796, Start Num: 12
Candidate Starts for Leroy_95:
(Start: 12 @50572 has 21 MA's), (16, 50593), (17, 50596), (18, 50602), (19, 50629), (22, 50710),

Gene: LitninMcQueen_100 Start: 52910, Stop: 53131, Start Num: 12
Candidate Starts for LitninMcQueen_100:
(4, 52787), (7, 52844), (Start: 12 @52910 has 21 MA's), (14, 52922), (16, 52931), (17, 52934), (18, 52940), (19, 52967),

Gene: Lutum_95 Start: 51091, Stop: 51312, Start Num: 12
Candidate Starts for Lutum_95:
(Start: 12 @51091 has 21 MA's), (14, 51103), (16, 51112), (17, 51115), (18, 51121), (19, 51148),

Gene: MortyNRick_91 Start: 51323, Stop: 51547, Start Num: 12
Candidate Starts for MortyNRick_91:
(6, 51251), (Start: 12 @51323 has 21 MA's), (14, 51335), (16, 51344), (17, 51347), (18, 51353), (19, 51380), (22, 51461),

Gene: ODay_105 Start: 54358, Stop: 54582, Start Num: 12
Candidate Starts for ODay_105:
(6, 54286), (Start: 12 @54358 has 21 MA's), (14, 54370), (16, 54379), (17, 54382), (18, 54388), (19, 54415), (22, 54496),

Gene: Periwinkle_103 Start: 53379, Stop: 53603, Start Num: 12
Candidate Starts for Periwinkle_103:
(Start: 12 @53379 has 21 MA's), (16, 53400), (17, 53403), (18, 53409), (19, 53436), (22, 53517),

Gene: Phabuloso_102 Start: 52544, Stop: 52768, Start Num: 12
Candidate Starts for Phabuloso_102:
(4, 52421), (7, 52478), (Start: 12 @52544 has 21 MA's), (14, 52556), (16, 52565), (17, 52568), (18, 52574), (19, 52601), (22, 52682),

Gene: Phistory_93 Start: 49420, Stop: 49644, Start Num: 12
Candidate Starts for Phistory_93:
(Start: 12 @49420 has 21 MA's), (16, 49441), (17, 49444), (18, 49450), (19, 49477), (22, 49558),

Gene: Spooky_95 Start: 51812, Stop: 52036, Start Num: 12
Candidate Starts for Spooky_95:
(Start: 12 @51812 has 21 MA's), (14, 51824), (16, 51833), (17, 51836), (18, 51842), (19, 51869), (22, 51950),

Gene: Squiddly_96 Start: 54781, Stop: 54993, Start Num: 13
Candidate Starts for Squiddly_96:
(Start: 13 @54781 has 1 MA's), (21, 54868),

Gene: Whitney_95 Start: 53061, Stop: 53282, Start Num: 12
Candidate Starts for Whitney_95:
(2, 52902), (10, 53013), (Start: 12 @53061 has 21 MA's), (16, 53082), (17, 53085), (18, 53091), (19, 53118),