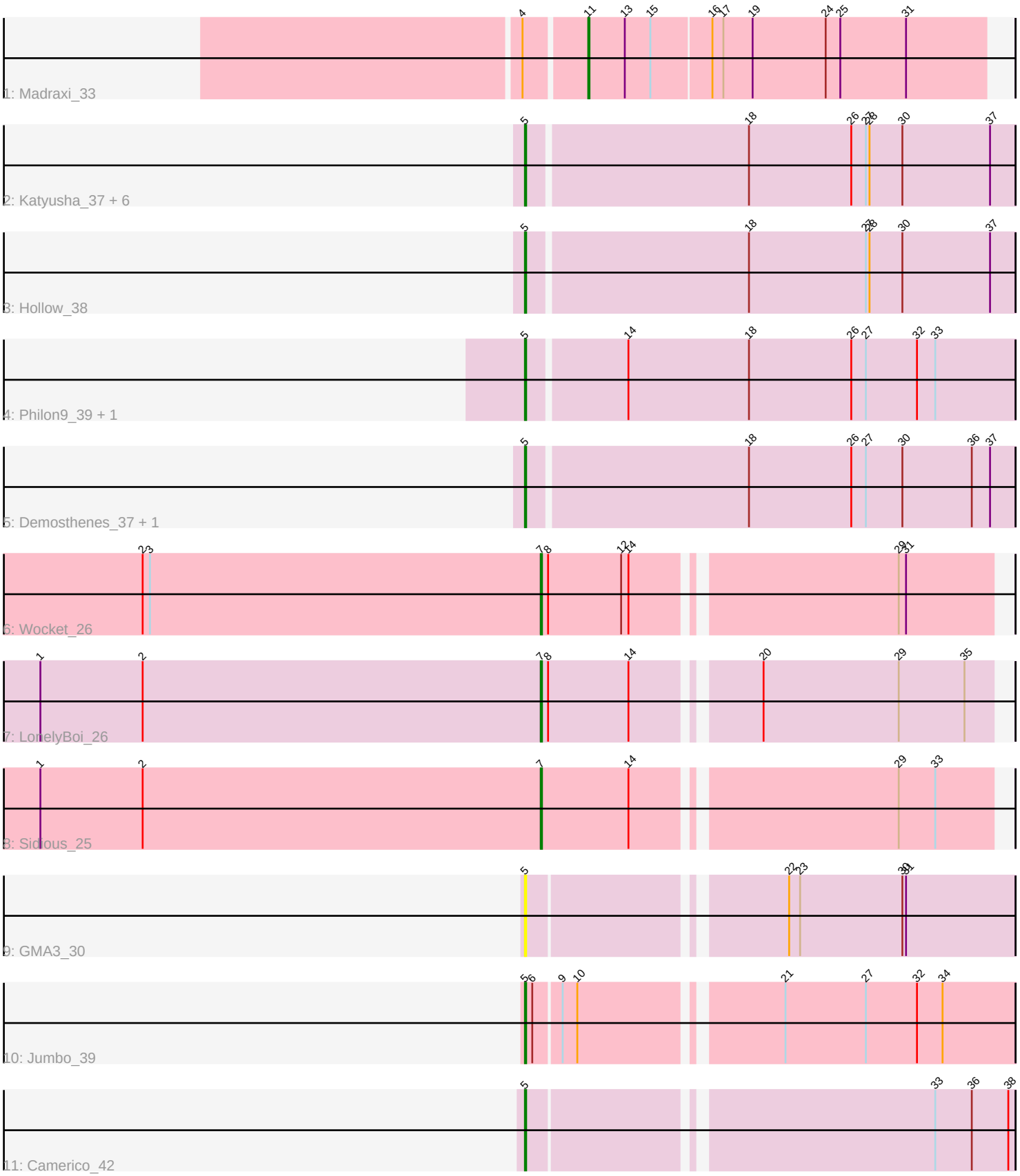
Pham 344442


1: Madraxi_33
2: Katyusha_37 + 6
3: Hollow_38
4: Philon9_39 + 1
5: Demosthenes_37 + 1
6: Wocket_26
7: LonelyBoi_26
8: Sidious_25
9: GMA3_30
10: Jumbo_39
11: Camerico_42

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 344442 Report

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

Pham number 344442 has 19 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Madraxi_33
• Track 2 : Katyusha_37, Kvothe_37, Niagara_37, Tredge_37, Teech_37, Benczkowski14_37, Teatealatte_37
• Track 3 : Hollow_38
• Track 4 : Philon9_39, Vitaenoii_39
• Track 5 : Demosthenes_37, ASerpRocky_37
• Track 6 : Wocket_26
• Track 7 : LonelyBoi_26
• Track 8 : Sidious_25
• Track 9 : GMA3_30
• Track 10 : Jumbo_39
• Track 11 : Camerico_42

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASerpRocky_37, Benczkowski14_37, Camerico_42, Demosthenes_37, GMA3_30, Hollow_38, Jumbo_39, Katyusha_37, Kvothe_37, Niagara_37, Philon9_39, Teatealatte_37, Teech_37, Tredge_37, Vitaenoii_39,

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

Genes that do not have the "Most Annotated" start:
• LonelyBoi_26, Madraxi_33, Sidious_25, Wocket_26,

Summary by start number:

Start 5:
• Found in 15 of 19 (78.9%) of genes in pham
• Manual Annotations of this start: 14 of 18

• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_37 (CS4), Benczkowski14_37 (CS4), Camerico_42 (DF4), Demosthenes_37 (CS4), GMA3_30 (DF2), Hollow_38 (CS4), Jumbo_39 (DF3), Katyusha_37 (CS4), Kvothe_37 (CS4), Niagara_37 (CS4), Philon9_39 (CS4), Teatealatte_37 (CS4), Teech_37 (CS4), Tredge_37 (CS4), Vitaenoii_39 (CS4),

Start 7:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LonelyBoi_26 (CY7), Sidious_25 (CZ7), Wocket_26 (CV),

Start 11:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Madraxi_33 (CF),

Summary by clusters:

There are 8 clusters represented in this pham: CZ7, CY7, DF4, CF, DF3, DF2, CS4, CV,

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

Info for manual annotations of cluster CS4:
•Start number 5 was manually annotated 12 times for cluster CS4.

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

Info for manual annotations of cluster CY7:
•Start number 7 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ7:
•Start number 7 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DF3:
•Start number 5 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 5 was manually annotated 1 time for cluster DF4.

Gene Information:

Gene: ASerpRocky_37 Start: 42293, Stop: 42688, Start Num: 5
Candidate Starts for ASerpRocky_37:

(Start: 5 @42293 has 14 MA's), (18, 42470), (26, 42554), (27, 42566), (30, 42596), (36, 42653), (37, 42668),

Gene: Benczkowski14_37 Start: 42326, Stop: 42721, Start Num: 5
Candidate Starts for Benczkowski14_37:
(Start: 5 @42326 has 14 MA's), (18, 42503), (26, 42587), (27, 42599), (28, 42602), (30, 42629), (37, 42701),

Gene: Camerico_42 Start: 44175, Stop: 44552, Start Num: 5
Candidate Starts for Camerico_42:
(Start: 5 @44175 has 14 MA's), (33, 44487), (36, 44517), (38, 44547),

Gene: Demosthenes_37 Start: 42266, Stop: 42661, Start Num: 5
Candidate Starts for Demosthenes_37:
(Start: 5 @42266 has 14 MA's), (18, 42443), (26, 42527), (27, 42539), (30, 42569), (36, 42626), (37, 42641),

Gene: GMA3_30 Start: 37862, Stop: 38239, Start Num: 5
Candidate Starts for GMA3_30:
(Start: 5 @37862 has 14 MA's), (22, 38054), (23, 38063), (30, 38147), (31, 38150),

Gene: Hollow_38 Start: 42672, Stop: 43067, Start Num: 5
Candidate Starts for Hollow_38:
(Start: 5 @42672 has 14 MA's), (18, 42849), (27, 42945), (28, 42948), (30, 42975), (37, 43047),

Gene: Jumbo_39 Start: 43199, Stop: 43576, Start Num: 5
Candidate Starts for Jumbo_39:
(Start: 5 @43199 has 14 MA's), (6, 43205), (9, 43226), (10, 43238), (21, 43388), (27, 43454), (32, 43496), (34, 43517),

Gene: Katyusha_37 Start: 42326, Stop: 42721, Start Num: 5
Candidate Starts for Katyusha_37:
(Start: 5 @42326 has 14 MA's), (18, 42503), (26, 42587), (27, 42599), (28, 42602), (30, 42629), (37, 42701),

Gene: Kvothe_37 Start: 42225, Stop: 42620, Start Num: 5
Candidate Starts for Kvothe_37:
(Start: 5 @42225 has 14 MA's), (18, 42402), (26, 42486), (27, 42498), (28, 42501), (30, 42528), (37, 42600),

Gene: LonelyBoi_26 Start: 22173, Stop: 22523, Start Num: 7
Candidate Starts for LonelyBoi_26:
(1, 21762), (2, 21846), (Start: 7 @22173 has 3 MA's), (8, 22179), (14, 22245), (20, 22335), (29, 22446), (35, 22500),

Gene: Madraxi_33 Start: 30365, Stop: 30688, Start Num: 11
Candidate Starts for Madraxi_33:
(4, 30317), (Start: 11 @30365 has 1 MA's), (13, 30395), (15, 30416), (16, 30464), (17, 30473), (19, 30497), (24, 30557), (25, 30569), (31, 30623),

Gene: Niagara_37 Start: 42283, Stop: 42678, Start Num: 5
Candidate Starts for Niagara_37:

(Start: 5 @42283 has 14 MA's), (18, 42460), (26, 42544), (27, 42556), (28, 42559), (30, 42586), (37, 42658),

Gene: Philon9_39 Start: 43489, Stop: 43884, Start Num: 5
Candidate Starts for Philon9_39:
(Start: 5 @43489 has 14 MA's), (14, 43567), (18, 43666), (26, 43750), (27, 43762), (32, 43804), (33, 43819),

Gene: Sidious_25 Start: 21824, Stop: 22174, Start Num: 7
Candidate Starts for Sidious_25:
(1, 21413), (2, 21497), (Start: 7 @21824 has 3 MA's), (14, 21896), (29, 22097), (33, 22127),

Gene: Teatealatte_37 Start: 42228, Stop: 42623, Start Num: 5
Candidate Starts for Teatealatte_37:
(Start: 5 @42228 has 14 MA's), (18, 42405), (26, 42489), (27, 42501), (28, 42504), (30, 42531), (37, 42603),

Gene: Teech_37 Start: 42029, Stop: 42424, Start Num: 5
Candidate Starts for Teech_37:
(Start: 5 @42029 has 14 MA's), (18, 42206), (26, 42290), (27, 42302), (28, 42305), (30, 42332), (37, 42404),

Gene: Tredge_37 Start: 42228, Stop: 42623, Start Num: 5
Candidate Starts for Tredge_37:
(Start: 5 @42228 has 14 MA's), (18, 42405), (26, 42489), (27, 42501), (28, 42504), (30, 42531), (37, 42603),

Gene: Vitaenoii_39 Start: 43488, Stop: 43883, Start Num: 5
Candidate Starts for Vitaenoii_39:
(Start: 5 @43488 has 14 MA's), (14, 43566), (18, 43665), (26, 43749), (27, 43761), (32, 43803), (33, 43818),

Gene: Wocket_26 Start: 21497, Stop: 21847, Start Num: 7
Candidate Starts for Wocket_26:
(2, 21170), (3, 21176), (Start: 7 @21497 has 3 MA's), (8, 21503), (12, 21563), (14, 21569), (29, 21770), (31, 21776),