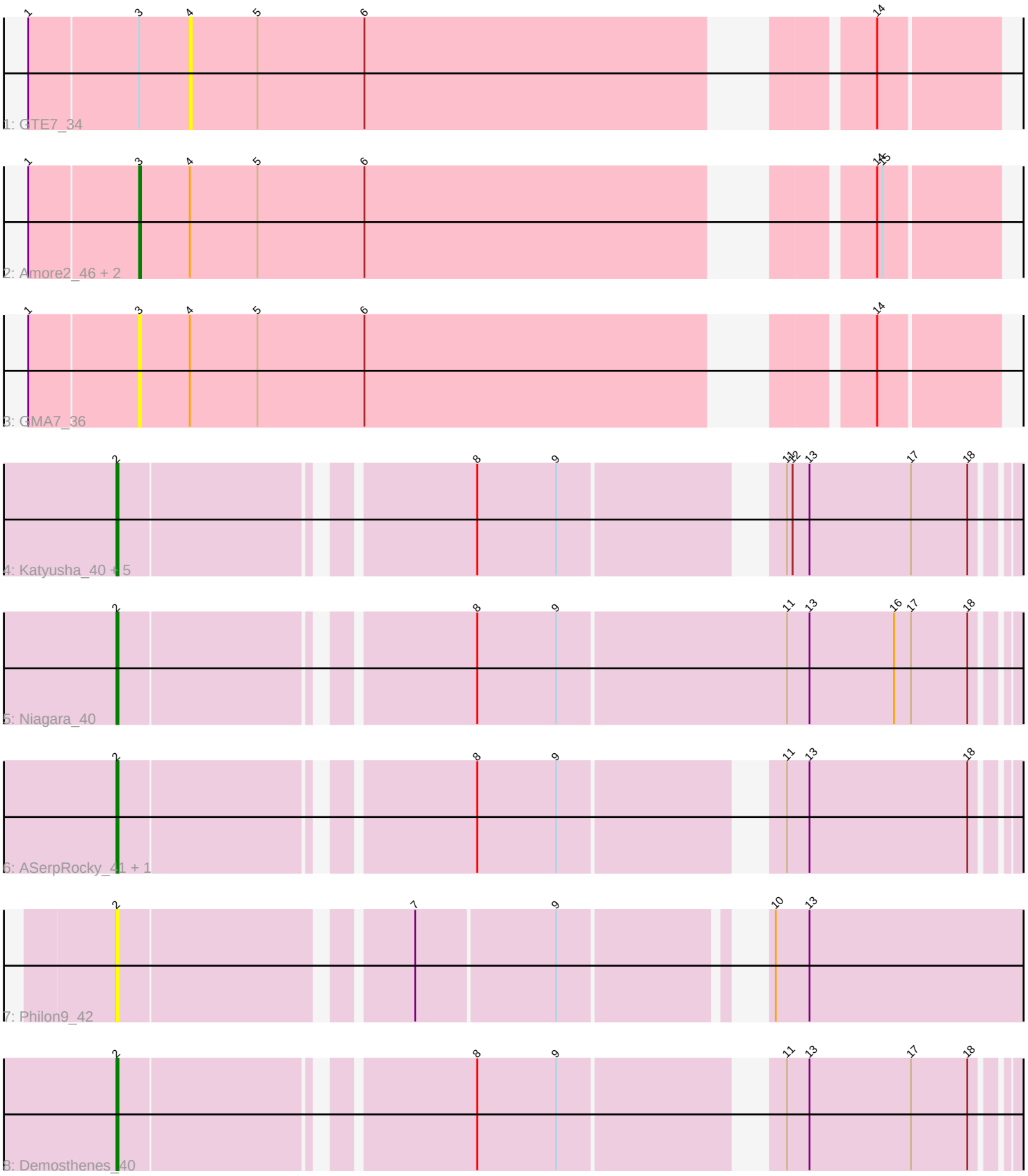
Pham 156741


1: GTE7_34
2: Amore2_46 + 2
3: GMA7_36
4: Katyusha_40 + 5
5: Niagara_40
6: ASerpRocky_41 + 1
7: Philon9_42
8: Demosthenes_40

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 156741 Report

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

Pham number 156741 has 16 members, 5 are drafts.

Phages represented in each track:
• Track 1 : GTE7_34
• Track 2 : Amore2_46, HayZem_45, Austin_46
• Track 3 : GMA7_36
• Track 4 : Katyusha_40, Teatealatte_41, Tredge_41, Benczkowski14_40, Teech_41, Kvothe_40
• Track 5 : Niagara_40
• Track 6 : ASerpRocky_41, Hollow_41
• Track 7 : Philon9_42
• Track 8 : Demosthenes_40

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

The start number called the most often in the published annotations is 2, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASerpRocky_41, Benczkowski14_40, Demosthenes_40, Hollow_41, Katyusha_40, Kvothe_40, Niagara_40, Philon9_42, Teatealatte_41, Teech_41, Tredge_41,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Amore2_46, Austin_46, GMA7_36, GTE7_34, HayZem_45,

Summary by start number:

Start 2:
• Found in 11 of 16 (68.8%) of genes in pham
• Manual Annotations of this start: 9 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_41 (CS4), Benczkowski14_40 (CS4), Demosthenes_40 (CS4), Hollow_41 (CS4), Katyusha_40 (CS4), Kvothe_40 (CS4), Niagara_40 (CS4), Philon9_42 (CS4), Teatealatte_41

(CS4), Teech_41 (CS4), Tredge_41 (CS4),

Start 3:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Amore2_46 (CS1), Austin_46 (CS1), GMA7_36 (CS1), HayZem_45 (CS1),

Start 4:
• Found in 5 of 16 (31.2%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: GTE7_34 (CS1),

Summary by clusters:

There are 2 clusters represented in this pham: CS4, CS1,

Info for manual annotations of cluster CS1:
•Start number 3 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CS4:
•Start number 2 was manually annotated 9 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_41 Start: 44705, Stop: 44253, Start Num: 2
Candidate Starts for ASerpRocky_41:
(Start: 2 @44705 has 9 MA's), (8, 44534), (9, 44492), (11, 44393), (13, 44381), (18, 44297),

Gene: Amore2_46 Start: 43956, Stop: 43543, Start Num: 3
Candidate Starts for Amore2_46:
(1, 44013), (Start: 3 @43956 has 2 MA's), (4, 43929), (5, 43893), (6, 43836), (14, 43605), (15, 43602),

Gene: Austin_46 Start: 43956, Stop: 43543, Start Num: 3
Candidate Starts for Austin_46:
(1, 44013), (Start: 3 @43956 has 2 MA's), (4, 43929), (5, 43893), (6, 43836), (14, 43605), (15, 43602),

Gene: Benczkowski14_40 Start: 44738, Stop: 44286, Start Num: 2
Candidate Starts for Benczkowski14_40:
(Start: 2 @44738 has 9 MA's), (8, 44567), (9, 44525), (11, 44426), (12, 44423), (13, 44414), (17, 44360), (18, 44330),

Gene: Demosthenes_40 Start: 44678, Stop: 44226, Start Num: 2
Candidate Starts for Demosthenes_40:
(Start: 2 @44678 has 9 MA's), (8, 44507), (9, 44465), (11, 44366), (13, 44354), (17, 44300), (18, 44270),

Gene: GMA7_36 Start: 38170, Stop: 37757, Start Num: 3
Candidate Starts for GMA7_36:

(1, 38227), (Start: 3 @38170 has 2 MA's), (4, 38143), (5, 38107), (6, 38050), (14, 37819),

Gene: GTE7_34 Start: 38174, Stop: 37788, Start Num: 4
Candidate Starts for GTE7_34:
(1, 38258), (Start: 3 @38201 has 2 MA's), (4, 38174), (5, 38138), (6, 38081), (14, 37850),

Gene: HayZem_45 Start: 43953, Stop: 43540, Start Num: 3
Candidate Starts for HayZem_45:
(1, 44010), (Start: 3 @43953 has 2 MA's), (4, 43926), (5, 43890), (6, 43833), (14, 43602), (15, 43599),

Gene: Hollow_41 Start: 45084, Stop: 44632, Start Num: 2
Candidate Starts for Hollow_41:
(Start: 2 @45084 has 9 MA's), (8, 44913), (9, 44871), (11, 44772), (13, 44760), (18, 44676),

Gene: Katyusha_40 Start: 44738, Stop: 44286, Start Num: 2
Candidate Starts for Katyusha_40:
(Start: 2 @44738 has 9 MA's), (8, 44567), (9, 44525), (11, 44426), (12, 44423), (13, 44414), (17, 44360), (18, 44330),

Gene: Kvothe_40 Start: 44637, Stop: 44185, Start Num: 2
Candidate Starts for Kvothe_40:
(Start: 2 @44637 has 9 MA's), (8, 44466), (9, 44424), (11, 44325), (12, 44322), (13, 44313), (17, 44259), (18, 44229),

Gene: Niagara_40 Start: 44716, Stop: 44243, Start Num: 2
Candidate Starts for Niagara_40:
(Start: 2 @44716 has 9 MA's), (8, 44545), (9, 44503), (11, 44383), (13, 44371), (16, 44326), (17, 44317), (18, 44287),

Gene: Philon9_42 Start: 45911, Stop: 45444, Start Num: 2
Candidate Starts for Philon9_42:
(Start: 2 @45911 has 9 MA's), (7, 45770), (9, 45698), (10, 45611), (13, 45593),

Gene: Teatealatte_41 Start: 44640, Stop: 44188, Start Num: 2
Candidate Starts for Teatealatte_41:
(Start: 2 @44640 has 9 MA's), (8, 44469), (9, 44427), (11, 44328), (12, 44325), (13, 44316), (17, 44262), (18, 44232),

Gene: Teech_41 Start: 44441, Stop: 43989, Start Num: 2
Candidate Starts for Teech_41:
(Start: 2 @44441 has 9 MA's), (8, 44270), (9, 44228), (11, 44129), (12, 44126), (13, 44117), (17, 44063), (18, 44033),

Gene: Tredge_41 Start: 44640, Stop: 44188, Start Num: 2
Candidate Starts for Tredge_41:
(Start: 2 @44640 has 9 MA's), (8, 44469), (9, 44427), (11, 44328), (12, 44325), (13, 44316), (17, 44262), (18, 44232),