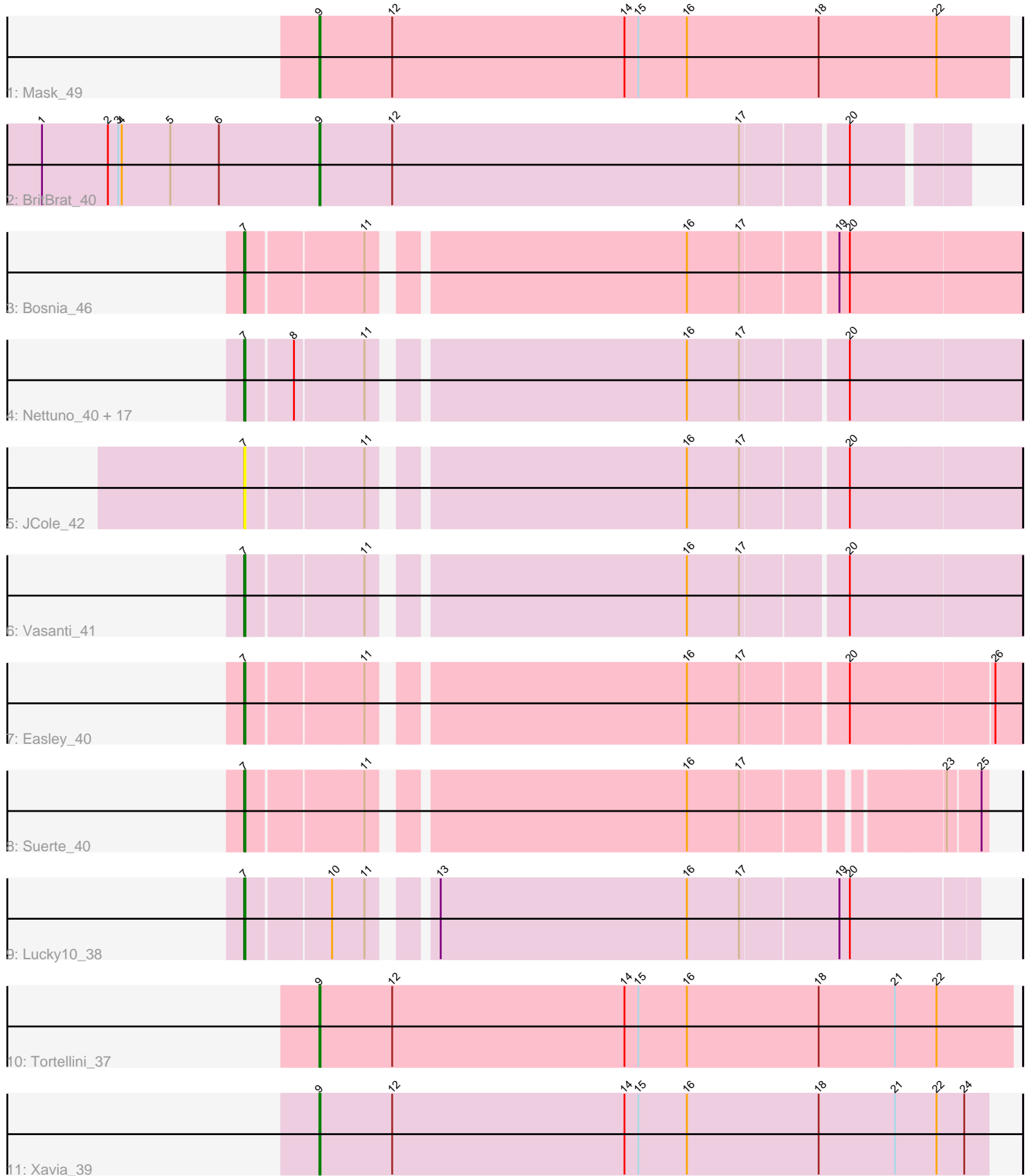


Pham 86082



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 86082 Report

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

Pham number 86082 has 28 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mask_49
- Track 2 : BritBrat_40
- Track 3 : Bosnia_46
- Track 4 : Nettuno_40, Lamberg_40, GemG_44, TuertoX_44, Floral_42, Gizermo_44, Ebert_46, Matteo_37, Sahara_43, Mocha12_44, Sproutie_44, Bjanese7_41, Savage_44, Whiteclaw_44, Pollux_44, Cynthia_44, Clap_44, Haley23_44
- Track 5 : JCole_42
- Track 6 : Vasanti_41
- Track 7 : Easley_40
- Track 8 : Suerte_40
- Track 9 : Lucky10_38
- Track 10 : Tortellini_37
- Track 11 : Xavia_39

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

The start number called the most often in the published annotations is 7, it was called in 23 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bjanese7_41, Bosnia_46, Clap_44, Cynthia_44, Easley_40, Ebert_46, Floral_42, GemG_44, Gizermo_44, Haley23_44, JCole_42, Lamberg_40, Lucky10_38, Matteo_37, Mocha12_44, Nettuno_40, Pollux_44, Sahara_43, Savage_44, Sproutie_44, Suerte_40, TuertoX_44, Vasanti_41, Whiteclaw_44,

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

-

Genes that do not have the "Most Annotated" start:

- BritBrat_40, Mask_49, Tortellini_37, Xavia_39,

Summary by start number:

Start 7:

- Found in 24 of 28 (85.7%) of genes in pham
- Manual Annotations of this start: 23 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bjaner7_41 (CZ2), Bosnia_46 (CZ1), Clap_44 (CZ2), Cynthia_44 (CZ2), Easley_40 (CZ4), Ebert_46 (CZ2), Floral_42 (CY1), GemG_44 (CZ2), Gizermo_44 (CZ2), Haley23_44 (CZ2), JCole_42 (CZ2), Lamberg_40 (CZ2), Lucky10_38 (DH), Matteo_37 (CZ2), Mocha12_44 (CZ2), Nettuno_40 (CZ2), Pollux_44 (CY1), Sahara_43 (CZ2), Savage_44 (CZ2), Sproutie_44 (CZ2), Suerte_40 (CZ4), TuertoX_44 (CZ2), Vasanti_41 (CZ2), Whiteclaw_44 (CZ2),

Start 9:

- Found in 4 of 28 (14.3%) of genes in pham
- Manual Annotations of this start: 4 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_40 (CY2), Mask_49 (AD), Tortellini_37 (P2), Xavia_39 (P3),

Summary by clusters:

There are 9 clusters represented in this pham: P2, CY2, CY1, AD, DH, P3, CZ2, CZ1, CZ4,

Info for manual annotations of cluster AD:

- Start number 9 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CY1:

- Start number 7 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 9 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ1:

- Start number 7 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 7 was manually annotated 17 times for cluster CZ2.

Info for manual annotations of cluster CZ4:

- Start number 7 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster DH:

- Start number 7 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster P2:

- Start number 9 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 9 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Bjanes7_41 Start: 31912, Stop: 31289, Start Num: 7

Candidate Starts for Bjanes7_41:

(Start: 7 @31912 has 23 MA's), (8, 31873), (11, 31816), (16, 31564), (17, 31519), (20, 31435),

Gene: Bosnia_46 Start: 38276, Stop: 37653, Start Num: 7

Candidate Starts for Bosnia_46:

(Start: 7 @38276 has 23 MA's), (11, 38180), (16, 37928), (17, 37883), (19, 37808), (20, 37799),

Gene: BritBrat_40 Start: 34130, Stop: 33591, Start Num: 9

Candidate Starts for BritBrat_40:

(1, 34370), (2, 34313), (3, 34304), (4, 34301), (5, 34259), (6, 34217), (Start: 9 @34130 has 4 MA's), (12, 34067), (17, 33767), (20, 33683),

Gene: Clap_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Clap_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Cynthia_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Cynthia_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Easley_40 Start: 31673, Stop: 31053, Start Num: 7

Candidate Starts for Easley_40:

(Start: 7 @31673 has 23 MA's), (11, 31577), (16, 31325), (17, 31280), (20, 31196), (26, 31076),

Gene: Ebert_46 Start: 32015, Stop: 31392, Start Num: 7

Candidate Starts for Ebert_46:

(Start: 7 @32015 has 23 MA's), (8, 31976), (11, 31919), (16, 31667), (17, 31622), (20, 31538),

Gene: Floral_42 Start: 35946, Stop: 35323, Start Num: 7

Candidate Starts for Floral_42:

(Start: 7 @35946 has 23 MA's), (8, 35907), (11, 35850), (16, 35598), (17, 35553), (20, 35469),

Gene: GemG_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for GemG_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Gizermo_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Gizermo_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Haley23_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Haley23_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: JCole_42 Start: 31109, Stop: 30486, Start Num: 7

Candidate Starts for JCole_42:

(Start: 7 @31109 has 23 MA's), (11, 31013), (16, 30761), (17, 30716), (20, 30632),

Gene: Lamberg_40 Start: 30600, Stop: 29977, Start Num: 7

Candidate Starts for Lamberg_40:

(Start: 7 @30600 has 23 MA's), (8, 30561), (11, 30504), (16, 30252), (17, 30207), (20, 30123),

Gene: Lucky10_38 Start: 30583, Stop: 29993, Start Num: 7

Candidate Starts for Lucky10_38:

(Start: 7 @30583 has 23 MA's), (10, 30514), (11, 30487), (13, 30448), (16, 30235), (17, 30190), (19, 30109), (20, 30100),

Gene: Mask_49 Start: 45210, Stop: 44614, Start Num: 9

Candidate Starts for Mask_49:

(Start: 9 @45210 has 4 MA's), (12, 45147), (14, 44946), (15, 44934), (16, 44892), (18, 44778), (22, 44676),

Gene: Matteo_37 Start: 29642, Stop: 29019, Start Num: 7

Candidate Starts for Matteo_37:

(Start: 7 @29642 has 23 MA's), (8, 29603), (11, 29546), (16, 29294), (17, 29249), (20, 29165),

Gene: Mocha12_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Mocha12_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Nettuno_40 Start: 30600, Stop: 29977, Start Num: 7

Candidate Starts for Nettuno_40:

(Start: 7 @30600 has 23 MA's), (8, 30561), (11, 30504), (16, 30252), (17, 30207), (20, 30123),

Gene: Pollux_44 Start: 35946, Stop: 35323, Start Num: 7

Candidate Starts for Pollux_44:

(Start: 7 @35946 has 23 MA's), (8, 35907), (11, 35850), (16, 35598), (17, 35553), (20, 35469),

Gene: Sahara_43 Start: 31838, Stop: 31215, Start Num: 7

Candidate Starts for Sahara_43:

(Start: 7 @31838 has 23 MA's), (8, 31799), (11, 31742), (16, 31490), (17, 31445), (20, 31361),

Gene: Savage_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Savage_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Sproutie_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Sproutie_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Suerte_40 Start: 32240, Stop: 31662, Start Num: 7

Candidate Starts for Suerte_40:

(Start: 7 @32240 has 23 MA's), (11, 32144), (16, 31892), (17, 31847), (23, 31694), (25, 31667),

Gene: Tortellini_37 Start: 33401, Stop: 32802, Start Num: 9

Candidate Starts for Tortellini_37:

(Start: 9 @33401 has 4 MA's), (12, 33338), (14, 33137), (15, 33125), (16, 33083), (18, 32969), (21, 32903), (22, 32867),

Gene: TuertoX_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for TuertoX_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Vasanti_41 Start: 31106, Stop: 30483, Start Num: 7

Candidate Starts for Vasanti_41:

(Start: 7 @31106 has 23 MA's), (11, 31010), (16, 30758), (17, 30713), (20, 30629),

Gene: Whiteclaw_44 Start: 32091, Stop: 31468, Start Num: 7

Candidate Starts for Whiteclaw_44:

(Start: 7 @32091 has 23 MA's), (8, 32052), (11, 31995), (16, 31743), (17, 31698), (20, 31614),

Gene: Xavia_39 Start: 33984, Stop: 33406, Start Num: 9

Candidate Starts for Xavia_39:

(Start: 9 @33984 has 4 MA's), (12, 33921), (14, 33720), (15, 33708), (16, 33666), (18, 33552), (21, 33486), (22, 33450), (24, 33426),