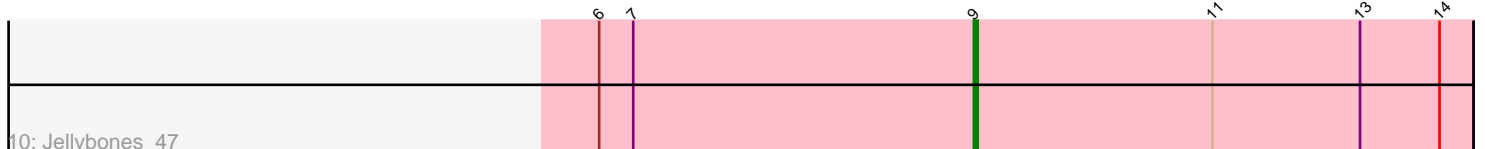
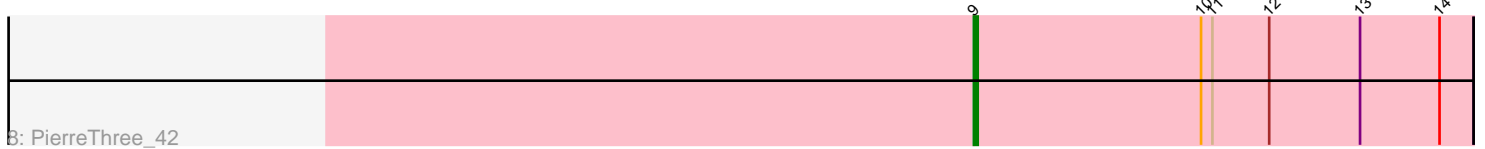
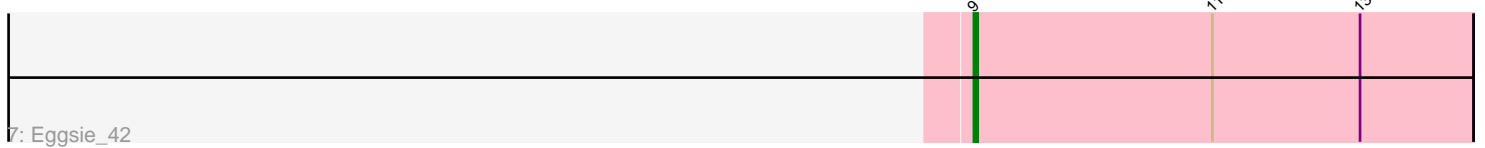
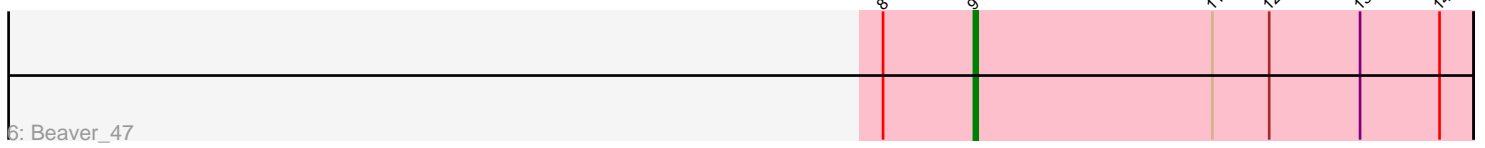
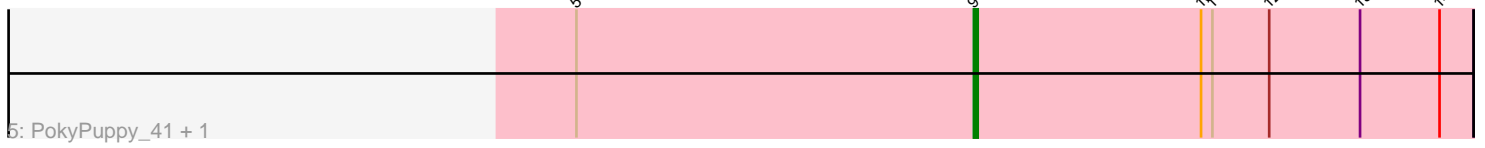
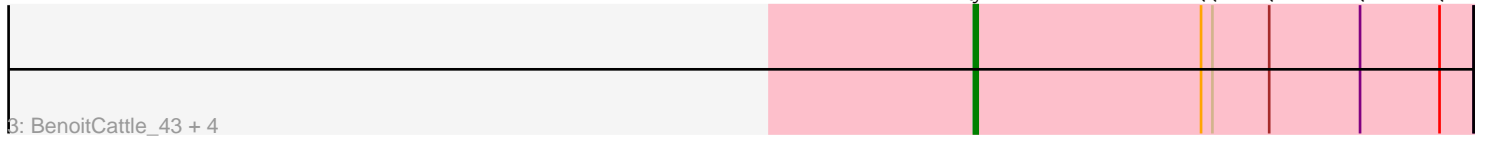
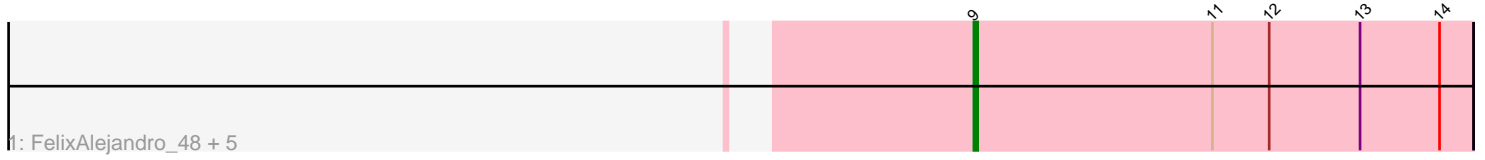


Pham 308860



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 308860 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308860 has 41 members, 5 are drafts.

Phages represented in each track:

- Track 1 : FelixAlejandro_48, Boneham_47, Butterball_47, Sombrero_43, CinnamonToast_49, BillyBobJr_49
- Track 2 : GourdThymes_43, Kelzog_45, Gorko_43, Poland_48, Msay19_48, Worcestershire_44, Ekhein_44, Lizzo_43, Squibbles_43, Hotorobo_43, CathyBurgh_43, Barbochs_42, Exiguo_43, Adgers_44, Monty_42, Flakey_43, RemRem_44, Breezic_43, John316_47, Sam12_43
- Track 3 : BenoitCattle_43, Crete_43, Dakiti_43, BigShaq_42, Chelms_42
- Track 4 : RoyalG_43, SteveFrench_42
- Track 5 : PokyPuppy_41, Linetti_43
- Track 6 : Beaver_47
- Track 7 : Eggsie_42
- Track 8 : PierreThree_42
- Track 9 : BirksAndSocks_47, Diabla_46
- Track 10 : Jellybones_47

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

The start number called the most often in the published annotations is 9, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_44, Barbochs_42, Beaver_47, BenoitCattle_43, BigShaq_42, BillyBobJr_49, BirksAndSocks_47, Boneham_47, Breezic_43, Butterball_47, CathyBurgh_43, Chelms_42, CinnamonToast_49, Crete_43, Dakiti_43, Diabla_46, Eggsie_42, Ekhein_44, Exiguo_43, FelixAlejandro_48, Flakey_43, Gorko_43, GourdThymes_43, Hotorobo_43, Jellybones_47, John316_47, Kelzog_45, Linetti_43, Lizzo_43, Monty_42, Msay19_48, PierreThree_42, PokyPuppy_41, Poland_48, RemRem_44, RoyalG_43, Sam12_43, Sombrero_43, Squibbles_43, SteveFrench_42, Worcestershire_44,

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

-

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

•

Summary by start number:

Start 9:

- Found in 41 of 41 (100.0%) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers_44 (CS2), Barbochs_42 (CS2), Beaver_47 (CS2), BenoitCattle_43 (CS2), BigShaq_42 (CS2), BillyBobJr_49 (CS2), BirksAndSocks_47 (CS2), Boneham_47 (CS2), Breezic_43 (CS2), Butterball_47 (CS2), CathyBurgh_43 (CS2), Chelms_42 (CS2), CinnamonToast_49 (CS2), Crete_43 (CS2), Dakiti_43 (CS2), Diabla_46 (CS2), Eggsie_42 (CS2), Ekhein_44 (CS2), Exiguo_43 (CS2), FelixAlejandro_48 (CS2), Flakey_43 (CS2), Gorko_43 (CS2), GourdThymes_43 (CS2), Hotorobo_43 (CS2), Jellybones_47 (CS2), John316_47 (CS2), Kelzog_45 (CS2), Linetti_43 (CS2), Lizzo_43 (CS2), Monty_42 (CS2), Msay19_48 (CS2), PierreThree_42 (CS2), PokyPuppy_41 (CS2), Poland_48 (CS2), RemRem_44 (CS2), RoyalG_43 (CS2), Sam12_43 (CS2), Sombrero_43 (CS2), Squibbles_43 (CS2), SteveFrench_42 (CS2), Worcestershire_44 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:

- Start number 9 was manually annotated 36 times for cluster CS2.

Gene Information:

Gene: Adgers_44 Start: 43440, Stop: 43309, Start Num: 9

Candidate Starts for Adgers_44:

(Start: 9 @43440 has 36 MA's), (11, 43377), (12, 43362), (13, 43338), (14, 43317),

Gene: Barbochs_42 Start: 43279, Stop: 43148, Start Num: 9

Candidate Starts for Barbochs_42:

(Start: 9 @43279 has 36 MA's), (11, 43216), (12, 43201), (13, 43177), (14, 43156),

Gene: Beaver_47 Start: 45326, Stop: 45195, Start Num: 9

Candidate Starts for Beaver_47:

(8, 45350), (Start: 9 @45326 has 36 MA's), (11, 45263), (12, 45248), (13, 45224), (14, 45203),

Gene: BenoitCattle_43 Start: 43384, Stop: 43253, Start Num: 9

Candidate Starts for BenoitCattle_43:

(Start: 9 @43384 has 36 MA's), (10, 43324), (11, 43321), (12, 43306), (13, 43282), (14, 43261),

Gene: BigShaq_42 Start: 43389, Stop: 43258, Start Num: 9

Candidate Starts for BigShaq_42:

(Start: 9 @43389 has 36 MA's), (10, 43329), (11, 43326), (12, 43311), (13, 43287), (14, 43266),

Gene: BillyBobJr_49 Start: 45357, Stop: 45226, Start Num: 9

Candidate Starts for BillyBobJr_49:

(Start: 9 @45357 has 36 MA's), (11, 45294), (12, 45279), (13, 45255), (14, 45234),

Gene: BirksAndSocks_47 Start: 45304, Stop: 45173, Start Num: 9

Candidate Starts for BirksAndSocks_47:

(1, 45535), (2, 45526), (3, 45496), (4, 45493), (Start: 9 @45304 has 36 MA's), (11, 45241), (12, 45226),

Gene: Boneham_47 Start: 45303, Stop: 45172, Start Num: 9

Candidate Starts for Boneham_47:

(Start: 9 @45303 has 36 MA's), (11, 45240), (12, 45225), (13, 45201), (14, 45180),

Gene: Breezic_43 Start: 43292, Stop: 43161, Start Num: 9

Candidate Starts for Breezic_43:

(Start: 9 @43292 has 36 MA's), (11, 43229), (12, 43214), (13, 43190), (14, 43169),

Gene: Butterball_47 Start: 45303, Stop: 45172, Start Num: 9

Candidate Starts for Butterball_47:

(Start: 9 @45303 has 36 MA's), (11, 45240), (12, 45225), (13, 45201), (14, 45180),

Gene: CathyBurgh_43 Start: 44146, Stop: 44015, Start Num: 9

Candidate Starts for CathyBurgh_43:

(Start: 9 @44146 has 36 MA's), (11, 44083), (12, 44068), (13, 44044), (14, 44023),

Gene: Chelms_42 Start: 43392, Stop: 43261, Start Num: 9

Candidate Starts for Chelms_42:

(Start: 9 @43392 has 36 MA's), (10, 43332), (11, 43329), (12, 43314), (13, 43290), (14, 43269),

Gene: CinnamonToast_49 Start: 45357, Stop: 45226, Start Num: 9

Candidate Starts for CinnamonToast_49:

(Start: 9 @45357 has 36 MA's), (11, 45294), (12, 45279), (13, 45255), (14, 45234),

Gene: Crete_43 Start: 43655, Stop: 43524, Start Num: 9

Candidate Starts for Crete_43:

(Start: 9 @43655 has 36 MA's), (10, 43595), (11, 43592), (12, 43577), (13, 43553), (14, 43532),

Gene: Dakiti_43 Start: 44260, Stop: 44129, Start Num: 9

Candidate Starts for Dakiti_43:

(Start: 9 @44260 has 36 MA's), (10, 44200), (11, 44197), (12, 44182), (13, 44158), (14, 44137),

Gene: Diabla_46 Start: 45138, Stop: 45007, Start Num: 9

Candidate Starts for Diabla_46:

(1, 45369), (2, 45360), (3, 45330), (4, 45327), (Start: 9 @45138 has 36 MA's), (11, 45075), (12, 45060),

Gene: Eggsie_42 Start: 43407, Stop: 43276, Start Num: 9

Candidate Starts for Eggsie_42:

(Start: 9 @43407 has 36 MA's), (11, 43344), (13, 43305),

Gene: Ekhein_44 Start: 43274, Stop: 43143, Start Num: 9

Candidate Starts for Ekhein_44:

(Start: 9 @43274 has 36 MA's), (11, 43211), (12, 43196), (13, 43172), (14, 43151),

Gene: Exiguo_43 Start: 43286, Stop: 43155, Start Num: 9

Candidate Starts for Exiguo_43:

(Start: 9 @43286 has 36 MA's), (11, 43223), (12, 43208), (13, 43184), (14, 43163),

Gene: FelixAlejandro_48 Start: 45501, Stop: 45370, Start Num: 9
Candidate Starts for FelixAlejandro_48:
(Start: 9 @45501 has 36 MA's), (11, 45438), (12, 45423), (13, 45399), (14, 45378),

Gene: Flakey_43 Start: 44150, Stop: 44019, Start Num: 9
Candidate Starts for Flakey_43:
(Start: 9 @44150 has 36 MA's), (11, 44087), (12, 44072), (13, 44048), (14, 44027),

Gene: Gorko_43 Start: 43278, Stop: 43147, Start Num: 9
Candidate Starts for Gorko_43:
(Start: 9 @43278 has 36 MA's), (11, 43215), (12, 43200), (13, 43176), (14, 43155),

Gene: GourdThymes_43 Start: 44152, Stop: 44021, Start Num: 9
Candidate Starts for GourdThymes_43:
(Start: 9 @44152 has 36 MA's), (11, 44089), (12, 44074), (13, 44050), (14, 44029),

Gene: Hotorobo_43 Start: 44157, Stop: 44026, Start Num: 9
Candidate Starts for Hotorobo_43:
(Start: 9 @44157 has 36 MA's), (11, 44094), (12, 44079), (13, 44055), (14, 44034),

Gene: Jellybones_47 Start: 45362, Stop: 45231, Start Num: 9
Candidate Starts for Jellybones_47:
(6, 45461), (7, 45452), (Start: 9 @45362 has 36 MA's), (11, 45299), (13, 45260), (14, 45239),

Gene: John316_47 Start: 45315, Stop: 45184, Start Num: 9
Candidate Starts for John316_47:
(Start: 9 @45315 has 36 MA's), (11, 45252), (12, 45237), (13, 45213), (14, 45192),

Gene: Kelzog_45 Start: 44164, Stop: 44033, Start Num: 9
Candidate Starts for Kelzog_45:
(Start: 9 @44164 has 36 MA's), (11, 44101), (12, 44086), (13, 44062), (14, 44041),

Gene: Linetti_43 Start: 44386, Stop: 44255, Start Num: 9
Candidate Starts for Linetti_43:
(5, 44491), (Start: 9 @44386 has 36 MA's), (10, 44326), (11, 44323), (12, 44308), (13, 44284), (14, 44263),

Gene: Lizzo_43 Start: 44146, Stop: 44015, Start Num: 9
Candidate Starts for Lizzo_43:
(Start: 9 @44146 has 36 MA's), (11, 44083), (12, 44068), (13, 44044), (14, 44023),

Gene: Monty_42 Start: 43296, Stop: 43165, Start Num: 9
Candidate Starts for Monty_42:
(Start: 9 @43296 has 36 MA's), (11, 43233), (12, 43218), (13, 43194), (14, 43173),

Gene: Msay19_48 Start: 45492, Stop: 45361, Start Num: 9
Candidate Starts for Msay19_48:
(Start: 9 @45492 has 36 MA's), (11, 45429), (12, 45414), (13, 45390), (14, 45369),

Gene: PierreThree_42 Start: 44257, Stop: 44126, Start Num: 9
Candidate Starts for PierreThree_42:
(Start: 9 @44257 has 36 MA's), (10, 44197), (11, 44194), (12, 44179), (13, 44155), (14, 44134),

Gene: PokyPuppy_41 Start: 44197, Stop: 44066, Start Num: 9

Candidate Starts for PokyPuppy_41:

(5, 44302), (Start: 9 @44197 has 36 MA's), (10, 44137), (11, 44134), (12, 44119), (13, 44095), (14, 44074),

Gene: Poland_48 Start: 45471, Stop: 45340, Start Num: 9

Candidate Starts for Poland_48:

(Start: 9 @45471 has 36 MA's), (11, 45408), (12, 45393), (13, 45369), (14, 45348),

Gene: RemRem_44 Start: 43286, Stop: 43155, Start Num: 9

Candidate Starts for RemRem_44:

(Start: 9 @43286 has 36 MA's), (11, 43223), (12, 43208), (13, 43184), (14, 43163),

Gene: RoyalG_43 Start: 43750, Stop: 43619, Start Num: 9

Candidate Starts for RoyalG_43:

(1, 43981), (2, 43972), (3, 43942), (4, 43939), (Start: 9 @43750 has 36 MA's), (11, 43687), (12, 43672), (13, 43648),

Gene: Sam12_43 Start: 43286, Stop: 43155, Start Num: 9

Candidate Starts for Sam12_43:

(Start: 9 @43286 has 36 MA's), (11, 43223), (12, 43208), (13, 43184), (14, 43163),

Gene: Sombrero_43 Start: 43288, Stop: 43157, Start Num: 9

Candidate Starts for Sombrero_43:

(Start: 9 @43288 has 36 MA's), (11, 43225), (12, 43210), (13, 43186), (14, 43165),

Gene: Squibbles_43 Start: 44149, Stop: 44018, Start Num: 9

Candidate Starts for Squibbles_43:

(Start: 9 @44149 has 36 MA's), (11, 44086), (12, 44071), (13, 44047), (14, 44026),

Gene: SteveFrench_42 Start: 43990, Stop: 43859, Start Num: 9

Candidate Starts for SteveFrench_42:

(1, 44221), (2, 44212), (3, 44182), (4, 44179), (Start: 9 @43990 has 36 MA's), (11, 43927), (12, 43912), (13, 43888),

Gene: Worcestershire_44 Start: 43288, Stop: 43157, Start Num: 9

Candidate Starts for Worcestershire_44:

(Start: 9 @43288 has 36 MA's), (11, 43225), (12, 43210), (13, 43186), (14, 43165),