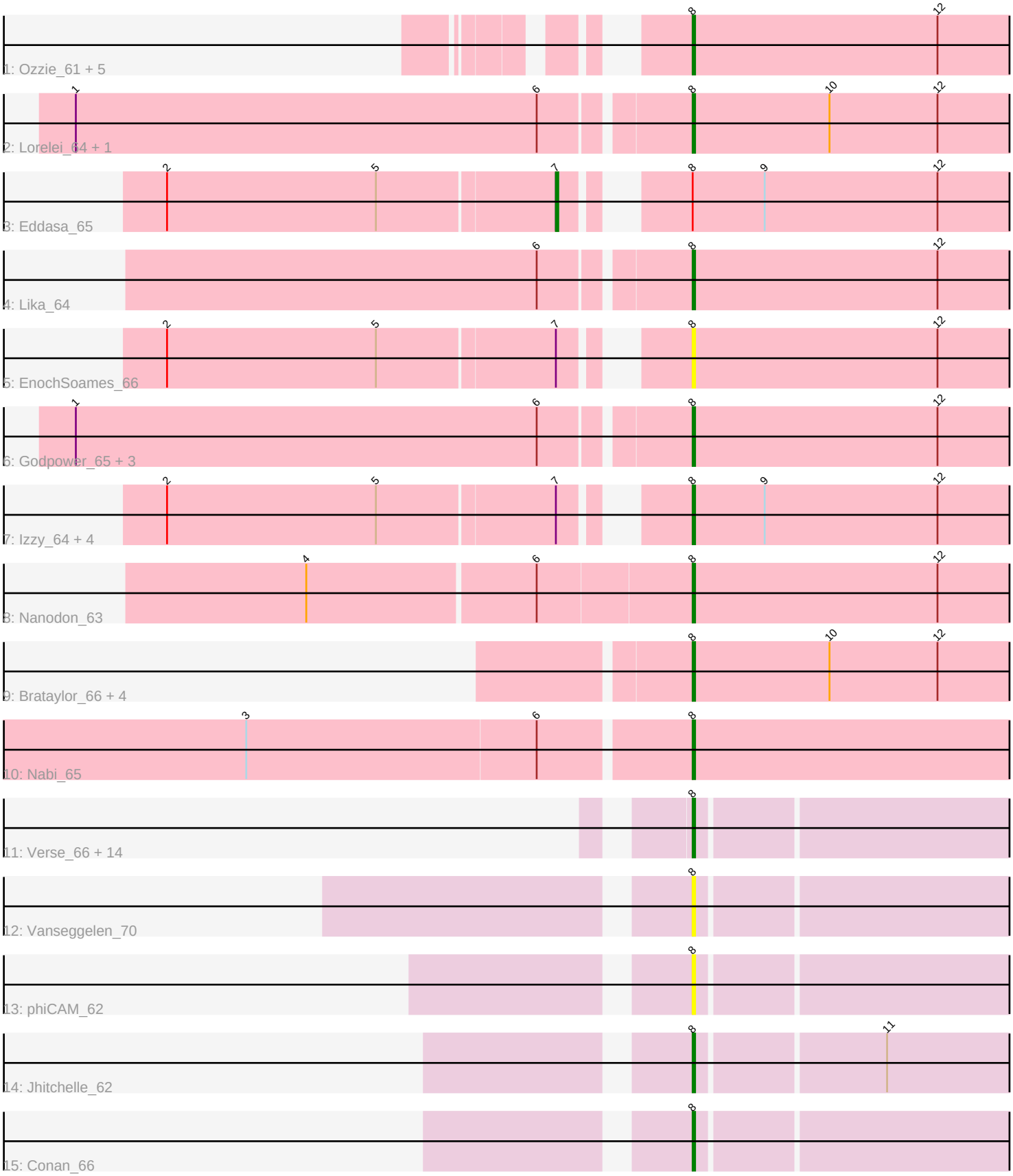
Pham 311737


1: Ozzie_61 + 5
2: Lorelei_64 + 1
3: Eddasa_65
4: Lika_64
5: EnochSoames_66
6: Godpower_65 + 3
7: Izzy_64 + 4
8: Nanodon_63
9: Brataylor_66 + 4
10: Nabi_65
11: Verse_66 + 14
12: Vanseggelen_70
13: phiCAM_62
14: Jhitchelle_62
15: Conan_66

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 311737 Report

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

Pham number 311737 has 46 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Ozzie_61, Hydra_64, BeardedLady_62, Legacy_61, Caliburn_61, SunsetPointe_61
• Track 2 : Lorelei_64, Rana_65
• Track 3 : Eddasa_65
• Track 4 : Lika_64
• Track 5 : EnochSoames_66
• Track 6 : Godpower_65, Goby_65, Sujidade_65, Toma_65
• Track 7 : Izzy_64, Oliynyk_64, Jash_64, Rusticus_64, BryanRecycles_64
• Track 8 : Nanodon_63
• Track 9 : Brataylor_66, Danzina_65, Celeste_65, Zemlya_65, Dattran_66
• Track 10 : Nabi_65
• Track 11 : Verse_66, Amela_65, Speedwell_68, ZamZam_65, Dexers_63, Provolone_66, Sudan_65, Alsaber_65, ElGato_66, Celery_68, SunkenRoot_66, Pavo_66, Saftant_63, Kaine_65, Verabelle_68
• Track 12 : Vanseggelen_70
• Track 13 : phiCAM_62
• Track 14 : Jhitchelle_62
• Track 15 : Conan_66

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

The start number called the most often in the published annotations is 8, it was called in 39 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alsaber_65, Amela_65, BeardedLady_62, Brataylor_66, BryanRecycles_64, Caliburn_61, Celery_68, Celeste_65, Conan_66, Danzina_65, Dattran_66, Dexers_63, ElGato_66, EnochSoames_66, Goby_65, Godpower_65, Hydra_64, Izzy_64, Jash_64, Jhitchelle_62, Kaine_65, Legacy_61, Lika_64, Lorelei_64, Nabi_65, Nanodon_63, Oliynyk_64, Ozzie_61, Pavo_66, Provolone_66, Rana_65, Rusticus_64, Saftant_63, Speedwell_68, Sudan_65, Sujidade_65, SunkenRoot_66, SunsetPointe_61, Toma_65, Vanseggelen_70, Verabelle_68, Verse_66, ZamZam_65, Zemlya_65, phiCAM_62,

Genes that have the "Most Annotated" start but do not call it:
• Eddasa_65,

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

Summary by start number:

Start 7:
• Found in 7 of 46 (15.2%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Eddasa_65 (BD1),

Start 8:
• Found in 46 of 46 (100.0%) of genes in pham
• Manual Annotations of this start: 39 of 40
• Called 97.8% of time when present
• Phage (with cluster) where this start called: Alsaber_65 (BD3), Amela_65 (BD3), BeardedLady_62 (BD1), Brataylor_66 (BD1), BryanRecycles_64 (BD1), Caliburn_61 (BD1), Celery_68 (BD3), Celeste_65 (BD1), Conan_66 (BD3), Danzina_65 (BD1), Dattran_66 (BD1), Dexers_63 (BD3), ElGato_66 (BD3), EnochSoames_66 (BD1), Goby_65 (BD1), Godpower_65 (BD1), Hydra_64 (BD1), Izzy_64 (BD1), Jash_64 (BD1), Jhitchelle_62 (BD3), Kaine_65 (BD3), Legacy_61 (BD1), Lika_64 (BD1), Lorelei_64 (BD1), Nabi_65 (BD1), Nanodon_63 (BD1), Oliynyk_64 (BD1), Ozzie_61 (BD1), Pavo_66 (BD3), Provolone_66 (BD3), Rana_65 (BD1), Rusticus_64 (BD1), Saftant_63 (BD3), Speedwell_68 (BD3), Sudan_65 (BD3), Sujidade_65 (BD1), SunkenRoot_66 (BD3), SunsetPointe_61 (BD1), Toma_65 (BD1), Vanseggelen_70 (BD3), Verabelle_68 (BD3), Verse_66 (BD3), ZamZam_65 (BD3), Zemlya_65 (BD1), phiCAM_62 (BD3),

Summary by clusters:

There are 2 clusters represented in this pham: BD1, BD3,

Info for manual annotations of cluster BD1:
•Start number 7 was manually annotated 1 time for cluster BD1.
•Start number 8 was manually annotated 25 times for cluster BD1.

Info for manual annotations of cluster BD3:
•Start number 8 was manually annotated 14 times for cluster BD3.

Gene Information:

Gene: Alsaber_65 Start: 43432, Stop: 43151, Start Num: 8
Candidate Starts for Alsaber_65:
(Start: 8 @43432 has 39 MA's),

Gene: Amela_65 Start: 44414, Stop: 44145, Start Num: 8
Candidate Starts for Amela_65:
(Start: 8 @44414 has 39 MA's),

Gene: BeardedLady_62 Start: 43698, Stop: 43423, Start Num: 8
Candidate Starts for BeardedLady_62:
(Start: 8 @43698 has 39 MA's), (12, 43596),

Gene: Brataylor_66 Start: 45152, Stop: 44892, Start Num: 8
Candidate Starts for Brataylor_66:
(Start: 8 @45152 has 39 MA's), (10, 45095), (12, 45050),

Gene: BryanRecycles_64 Start: 44100, Stop: 43813, Start Num: 8
Candidate Starts for BryanRecycles_64:
(2, 44295), (5, 44208), (Start: 7 @44136 has 1 MA's), (Start: 8 @44100 has 39 MA's), (9, 44070), (12, 43998),

Gene: Caliburn_61 Start: 43704, Stop: 43429, Start Num: 8
Candidate Starts for Caliburn_61:
(Start: 8 @43704 has 39 MA's), (12, 43602),

Gene: Celery_68 Start: 43343, Stop: 43065, Start Num: 8
Candidate Starts for Celery_68:
(Start: 8 @43343 has 39 MA's),

Gene: Celeste_65 Start: 44617, Stop: 44357, Start Num: 8
Candidate Starts for Celeste_65:
(Start: 8 @44617 has 39 MA's), (10, 44560), (12, 44515),

Gene: Conan_66 Start: 43683, Stop: 43417, Start Num: 8
Candidate Starts for Conan_66:
(Start: 8 @43683 has 39 MA's),

Gene: Danzina_65 Start: 44866, Stop: 44606, Start Num: 8
Candidate Starts for Danzina_65:
(Start: 8 @44866 has 39 MA's), (10, 44809), (12, 44764),

Gene: Dattran_66 Start: 45008, Stop: 44748, Start Num: 8
Candidate Starts for Dattran_66:
(Start: 8 @45008 has 39 MA's), (10, 44951), (12, 44906),

Gene: Dexers_63 Start: 43658, Stop: 43389, Start Num: 8
Candidate Starts for Dexers_63:
(Start: 8 @43658 has 39 MA's),

Gene: Eddasa_65 Start: 44675, Stop: 44352, Start Num: 7
Candidate Starts for Eddasa_65:
(2, 44834), (5, 44747), (Start: 7 @44675 has 1 MA's), (Start: 8 @44639 has 39 MA's), (9, 44609), (12, 44537),

Gene: ElGato_66 Start: 43561, Stop: 43289, Start Num: 8
Candidate Starts for ElGato_66:
(Start: 8 @43561 has 39 MA's),

Gene: EnochSoames_66 Start: 43897, Stop: 43610, Start Num: 8
Candidate Starts for EnochSoames_66:

(2, 44092), (5, 44005), (Start: 7 @43933 has 1 MA's), (Start: 8 @43897 has 39 MA's), (12, 43795),

Gene: Goby_65 Start: 45488, Stop: 45204, Start Num: 8
Candidate Starts for Goby_65:
(1, 45737), (6, 45545), (Start: 8 @45488 has 39 MA's), (12, 45386),

Gene: Godpower_65 Start: 44764, Stop: 44480, Start Num: 8
Candidate Starts for Godpower_65:
(1, 45013), (6, 44821), (Start: 8 @44764 has 39 MA's), (12, 44662),

Gene: Hydra_64 Start: 44506, Stop: 44231, Start Num: 8
Candidate Starts for Hydra_64:
(Start: 8 @44506 has 39 MA's), (12, 44404),

Gene: Izzy_64 Start: 44147, Stop: 43860, Start Num: 8
Candidate Starts for Izzy_64:
(2, 44342), (5, 44255), (Start: 7 @44183 has 1 MA's), (Start: 8 @44147 has 39 MA's), (9, 44117), (12, 44045),

Gene: Jash_64 Start: 44100, Stop: 43813, Start Num: 8
Candidate Starts for Jash_64:
(2, 44295), (5, 44208), (Start: 7 @44136 has 1 MA's), (Start: 8 @44100 has 39 MA's), (9, 44070), (12, 43998),

Gene: Jhitchelle_62 Start: 42943, Stop: 42677, Start Num: 8
Candidate Starts for Jhitchelle_62:
(Start: 8 @42943 has 39 MA's), (11, 42868),

Gene: Kaine_65 Start: 43456, Stop: 43175, Start Num: 8
Candidate Starts for Kaine_65:
(Start: 8 @43456 has 39 MA's),

Gene: Legacy_61 Start: 43695, Stop: 43420, Start Num: 8
Candidate Starts for Legacy_61:
(Start: 8 @43695 has 39 MA's), (12, 43593),

Gene: Lika_64 Start: 45317, Stop: 45033, Start Num: 8
Candidate Starts for Lika_64:
(6, 45374), (Start: 8 @45317 has 39 MA's), (12, 45215),

Gene: Lorelei_64 Start: 44624, Stop: 44364, Start Num: 8
Candidate Starts for Lorelei_64:
(1, 44873), (6, 44681), (Start: 8 @44624 has 39 MA's), (10, 44567), (12, 44522),

Gene: Nabi_65 Start: 45193, Stop: 44897, Start Num: 8
Candidate Starts for Nabi_65:
(3, 45373), (6, 45253), (Start: 8 @45193 has 39 MA's),

Gene: Nanodon_63 Start: 44114, Stop: 43854, Start Num: 8
Candidate Starts for Nanodon_63:
(4, 44270), (6, 44177), (Start: 8 @44114 has 39 MA's), (12, 44012),

Gene: Oliynyk_64 Start: 44100, Stop: 43813, Start Num: 8

Candidate Starts for Oliynyk_64:
(2, 44295), (5, 44208), (Start: 7 @44136 has 1 MA's), (Start: 8 @44100 has 39 MA's), (9, 44070), (12, 43998),

Gene: Ozzie_61 Start: 43704, Stop: 43429, Start Num: 8
Candidate Starts for Ozzie_61:
(Start: 8 @43704 has 39 MA's), (12, 43602),

Gene: Pavo_66 Start: 43632, Stop: 43360, Start Num: 8
Candidate Starts for Pavo_66:
(Start: 8 @43632 has 39 MA's),

Gene: Provolone_66 Start: 43773, Stop: 43501, Start Num: 8
Candidate Starts for Provolone_66:
(Start: 8 @43773 has 39 MA's),

Gene: Rana_65 Start: 45046, Stop: 44786, Start Num: 8
Candidate Starts for Rana_65:
(1, 45295), (6, 45103), (Start: 8 @45046 has 39 MA's), (10, 44989), (12, 44944),

Gene: Rusticus_64 Start: 44100, Stop: 43813, Start Num: 8
Candidate Starts for Rusticus_64:
(2, 44295), (5, 44208), (Start: 7 @44136 has 1 MA's), (Start: 8 @44100 has 39 MA's), (9, 44070), (12, 43998),

Gene: Saftant_63 Start: 43520, Stop: 43239, Start Num: 8
Candidate Starts for Saftant_63:
(Start: 8 @43520 has 39 MA's),

Gene: Speedwell_68 Start: 44565, Stop: 44284, Start Num: 8
Candidate Starts for Speedwell_68:
(Start: 8 @44565 has 39 MA's),

Gene: Sudan_65 Start: 43439, Stop: 43158, Start Num: 8
Candidate Starts for Sudan_65:
(Start: 8 @43439 has 39 MA's),

Gene: Sujidade_65 Start: 45552, Stop: 45268, Start Num: 8
Candidate Starts for Sujidade_65:
(1, 45801), (6, 45609), (Start: 8 @45552 has 39 MA's), (12, 45450),

Gene: SunkenRoot_66 Start: 44141, Stop: 43872, Start Num: 8
Candidate Starts for SunkenRoot_66:
(Start: 8 @44141 has 39 MA's),

Gene: SunsetPointe_61 Start: 43711, Stop: 43436, Start Num: 8
Candidate Starts for SunsetPointe_61:
(Start: 8 @43711 has 39 MA's), (12, 43609),

Gene: Toma_65 Start: 45491, Stop: 45207, Start Num: 8
Candidate Starts for Toma_65:
(1, 45740), (6, 45548), (Start: 8 @45491 has 39 MA's), (12, 45389),

Gene: Vanseggelen_70 Start: 43501, Stop: 43232, Start Num: 8
Candidate Starts for Vanseggelen_70:
(Start: 8 @43501 has 39 MA's),

Gene: Verabelle_68 Start: 43108, Stop: 42839, Start Num: 8
Candidate Starts for Verabelle_68:
(Start: 8 @43108 has 39 MA's),

Gene: Verse_66 Start: 44405, Stop: 44136, Start Num: 8
Candidate Starts for Verse_66:
(Start: 8 @44405 has 39 MA's),

Gene: ZamZam_65 Start: 43862, Stop: 43581, Start Num: 8
Candidate Starts for ZamZam_65:
(Start: 8 @43862 has 39 MA's),

Gene: Zemlya_65 Start: 45171, Stop: 44911, Start Num: 8
Candidate Starts for Zemlya_65:
(Start: 8 @45171 has 39 MA's), (10, 45114), (12, 45069),

Gene: phiCAM_62 Start: 45181, Stop: 44900, Start Num: 8
Candidate Starts for phiCAM_62:
(Start: 8 @45181 has 39 MA's),