



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 2455 Report

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

Pham number 2455 has 43 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Ilzat_31, Sedgewig_31, Gubbabump_31, SonOfLevi_31, KannH_31, AranulaLuti_31, Calix_31, Nattles_31, Winzigespinne_31, Gelo_31, JeriBeth_32, Klimt_31, Etta_31, Benjalauren_32, Christoph_31, StingRay_31, Erla_31, Duocatuli_31, Clancy_31, Baines_31, Bonino_31, Chamuel_31, JasperRussell_31, Kale_31, StirfryIV_32, HankSprout_33, Chako_31, Jerbirus_32, Papafritta_31, HungryHenry_32, Rog141_32, Pocket_31, HanSolo_31, Garey24_31
- Track 2 : ManRay_31, Asta_33, Gershwin_31, TeddyBear_31, Tenda_31, Oats_31, Espinosa_31, Aubergine_31
- Track 3 : Janus167_31

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

The start number called the most often in the published annotations is 1, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AranulaLuti_31, Asta_33, Aubergine_31, Baines_31, Benjalauren_32, Bonino_31, Calix_31, Chako_31, Chamuel_31, Christoph_31, Clancy_31, Duocatuli_31, Erla_31, Espinosa_31, Etta_31, Garey24_31, Gelo_31, Gershwin_31, Gubbabump_31, HanSolo_31, HankSprout_33, HungryHenry_32, Ilzat_31, Janus167_31, JasperRussell_31, Jerbirus_32, JeriBeth_32, Kale_31, KannH_31, Klimt_31, ManRay_31, Nattles_31, Oats_31, Papafritta_31, Pocket_31, Rog141_32, Sedgewig_31, SonOfLevi_31, StingRay_31, StirfryIV_32, TeddyBear_31, Tenda_31, Winzigespinne_31,

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 1:

- Found in 43 of 43 (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: AranulaLuti_31 (EA1), Asta_33 (EA1), Aubergine_31 (EA1), Baines_31 (EA1), Benjalauren_32 (EA1), Bonino_31 (EA1), Calix_31 (EA1), Chako_31 (EA1), Chamuel_31 (EA1), Christoph_31 (EA1), Clancy_31 (EA1), Duocatuli_31 (EA1), Erla_31 (EA1), Espinosa_31 (EA1), Etta_31 (EA1), Garey24_31 (EA1), Gelo_31 (EA1), Gershwin_31 (EA1), Gubbabump_31 (EA1), HanSolo_31 (EA1), HankSprout_33 (EA1), HungryHenry_32 (EA1), Ilzat_31 (EA1), Janus167_31 (EA1), JasperRussell_31 (EA1), Jerbirus_32 (EA1), JeriBeth_32 (EA1), Kale_31 (EA1), KannH_31 (EA1), Klimt_31 (EA1), ManRay_31 (EA1), Nattles_31 (EA1), Oats_31 (EA1), Papafritta_31 (EA1), Pocket_31 (EA1), Rog141_32 (EA1), Sedgewig_31 (EA1), SonOfLevi_31 (EA1), StingRay_31 (EA1), StirfryIV_32 (EA1), TeddyBear_31 (EA1), Tenda_31 (EA1), Winzigespinne_31 (EA1),

Summary by clusters:

There is one cluster represented in this pham: EA1

Info for manual annotations of cluster EA1:

- Start number 1 was manually annotated 36 times for cluster EA1.

Gene Information:

Gene: AranulaLuti_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for AranulaLuti_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Asta_33 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for Asta_33:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Aubergine_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for Aubergine_31:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Baines_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Baines_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Benjalauren_32 Start: 21916, Stop: 21653, Start Num: 1

Candidate Starts for Benjalauren_32:

(Start: 1 @21916 has 36 MA's), (2, 21859), (3, 21826), (4, 21808), (5, 21781), (6, 21769), (7, 21763), (8, 21748), (9, 21703),

Gene: Bonino_31 Start: 21895, Stop: 21632, Start Num: 1

Candidate Starts for Bonino_31:

(Start: 1 @21895 has 36 MA's), (2, 21838), (3, 21805), (4, 21787), (5, 21760), (6, 21748), (7, 21742), (8, 21727), (9, 21682),

Gene: Calix_31 Start: 21899, Stop: 21636, Start Num: 1

Candidate Starts for Calix_31:

(Start: 1 @21899 has 36 MA's), (2, 21842), (3, 21809), (4, 21791), (5, 21764), (6, 21752), (7, 21746), (8, 21731), (9, 21686),

Gene: Chako_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Chako_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Chamuel_31 Start: 21901, Stop: 21638, Start Num: 1

Candidate Starts for Chamuel_31:

(Start: 1 @21901 has 36 MA's), (2, 21844), (3, 21811), (4, 21793), (5, 21766), (6, 21754), (7, 21748), (8, 21733), (9, 21688),

Gene: Christoph_31 Start: 21917, Stop: 21654, Start Num: 1

Candidate Starts for Christoph_31:

(Start: 1 @21917 has 36 MA's), (2, 21860), (3, 21827), (4, 21809), (5, 21782), (6, 21770), (7, 21764), (8, 21749), (9, 21704),

Gene: Clancy_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Clancy_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Duocatuli_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Duocatuli_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Erla_31 Start: 21899, Stop: 21636, Start Num: 1

Candidate Starts for Erla_31:

(Start: 1 @21899 has 36 MA's), (2, 21842), (3, 21809), (4, 21791), (5, 21764), (6, 21752), (7, 21746), (8, 21731), (9, 21686),

Gene: Espinosa_31 Start: 21917, Stop: 21654, Start Num: 1

Candidate Starts for Espinosa_31:

(Start: 1 @21917 has 36 MA's), (2, 21860), (4, 21809), (5, 21782), (6, 21770), (7, 21764), (8, 21749), (9, 21704),

Gene: Etta_31 Start: 21903, Stop: 21640, Start Num: 1

Candidate Starts for Etta_31:

(Start: 1 @21903 has 36 MA's), (2, 21846), (3, 21813), (4, 21795), (5, 21768), (6, 21756), (7, 21750), (8, 21735), (9, 21690),

Gene: Garey24_31 Start: 21882, Stop: 21619, Start Num: 1

Candidate Starts for Garey24_31:

(Start: 1 @21882 has 36 MA's), (2, 21825), (3, 21792), (4, 21774), (5, 21747), (6, 21735), (7, 21729), (8, 21714), (9, 21669),

Gene: Gelo_31 Start: 21903, Stop: 21640, Start Num: 1

Candidate Starts for Gelo_31:

(Start: 1 @21903 has 36 MA's), (2, 21846), (3, 21813), (4, 21795), (5, 21768), (6, 21756), (7, 21750), (8, 21735), (9, 21690),

Gene: Gershwin_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for Gershwin_31:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Gubbabump_31 Start: 21908, Stop: 21645, Start Num: 1

Candidate Starts for Gubbabump_31:

(Start: 1 @21908 has 36 MA's), (2, 21851), (3, 21818), (4, 21800), (5, 21773), (6, 21761), (7, 21755), (8, 21740), (9, 21695),

Gene: HanSolo_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for HanSolo_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: HankSprout_33 Start: 21786, Stop: 21523, Start Num: 1

Candidate Starts for HankSprout_33:

(Start: 1 @21786 has 36 MA's), (2, 21729), (3, 21696), (4, 21678), (5, 21651), (6, 21639), (7, 21633), (8, 21618), (9, 21573),

Gene: HungryHenry_32 Start: 21917, Stop: 21654, Start Num: 1

Candidate Starts for HungryHenry_32:

(Start: 1 @21917 has 36 MA's), (2, 21860), (3, 21827), (4, 21809), (5, 21782), (6, 21770), (7, 21764), (8, 21749), (9, 21704),

Gene: Ilzat_31 Start: 21916, Stop: 21653, Start Num: 1

Candidate Starts for Ilzat_31:

(Start: 1 @21916 has 36 MA's), (2, 21859), (3, 21826), (4, 21808), (5, 21781), (6, 21769), (7, 21763), (8, 21748), (9, 21703),

Gene: Janus167_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Janus167_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: JasperRussell_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for JasperRussell_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Jerbirus_32 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Jerbirus_32:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: JeriBeth_32 Start: 21763, Stop: 21500, Start Num: 1

Candidate Starts for JeriBeth_32:

(Start: 1 @21763 has 36 MA's), (2, 21706), (3, 21673), (4, 21655), (5, 21628), (6, 21616), (7, 21610), (8, 21595), (9, 21550),

Gene: Kale_31 Start: 21921, Stop: 21658, Start Num: 1

Candidate Starts for Kale_31:

(Start: 1 @21921 has 36 MA's), (2, 21864), (3, 21831), (4, 21813), (5, 21786), (6, 21774), (7, 21768), (8, 21753), (9, 21708),

Gene: KannH_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for KannH_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Klimt_31 Start: 21901, Stop: 21638, Start Num: 1

Candidate Starts for Klimt_31:

(Start: 1 @21901 has 36 MA's), (2, 21844), (3, 21811), (4, 21793), (5, 21766), (6, 21754), (7, 21748), (8, 21733), (9, 21688),

Gene: ManRay_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for ManRay_31:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Nattles_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Nattles_31:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Oats_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for Oats_31:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Papafritta_31 Start: 21915, Stop: 21652, Start Num: 1

Candidate Starts for Papafritta_31:

(Start: 1 @21915 has 36 MA's), (2, 21858), (3, 21825), (4, 21807), (5, 21780), (6, 21768), (7, 21762), (8, 21747), (9, 21702),

Gene: Pocket_31 Start: 21904, Stop: 21641, Start Num: 1

Candidate Starts for Pocket_31:

(Start: 1 @21904 has 36 MA's), (2, 21847), (3, 21814), (4, 21796), (5, 21769), (6, 21757), (7, 21751), (8, 21736), (9, 21691),

Gene: Rog141_32 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Rog141_32:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Sedgewig_31 Start: 21898, Stop: 21635, Start Num: 1

Candidate Starts for Sedgewig_31:

(Start: 1 @21898 has 36 MA's), (2, 21841), (3, 21808), (4, 21790), (5, 21763), (6, 21751), (7, 21745), (8, 21730), (9, 21685),

Gene: SonOfLevi_31 Start: 21901, Stop: 21638, Start Num: 1

Candidate Starts for SonOfLevi_31:

(Start: 1 @21901 has 36 MA's), (2, 21844), (3, 21811), (4, 21793), (5, 21766), (6, 21754), (7, 21748), (8, 21733), (9, 21688),

Gene: StingRay_31 Start: 21916, Stop: 21653, Start Num: 1

Candidate Starts for StingRay_31:

(Start: 1 @21916 has 36 MA's), (2, 21859), (3, 21826), (4, 21808), (5, 21781), (6, 21769), (7, 21763), (8, 21748), (9, 21703),

Gene: StirfryIV_32 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for StirfryIV_32:

(Start: 1 @21906 has 36 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: TeddyBear_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for TeddyBear_31:

(Start: 1 @21919 has 36 MA's), (2, 21862), (4, 21811), (5, 21784), (6, 21772), (7, 21766), (8, 21751), (9, 21706),

Gene: Tenda_31 Start: 21917, Stop: 21654, Start Num: 1

Candidate Starts for Tenda_31:

(Start: 1 @21917 has 36 MA's), (2, 21860), (4, 21809), (5, 21782), (6, 21770), (7, 21764), (8, 21749), (9, 21704),

Gene: Winzigespinne_31 Start: 21905, Stop: 21642, Start Num: 1

Candidate Starts for Winzigespinne_31:

(Start: 1 @21905 has 36 MA's), (2, 21848), (3, 21815), (4, 21797), (5, 21770), (6, 21758), (7, 21752), (8, 21737), (9, 21692),