



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 219857 Report

This analysis was run 03/28/25 on database version 593.

Pham number 219857 has 46 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Ilzat_31, Sedgewig_31, Gubbabump_31, SonOfLevi_31, KannH_31, AranulaLuti_31, Calix_31, Chamuel_31, Nattles_31, Winzigespinne_31, Exploradora_31, Gelo_31, JeriBeth_32, Klimt_31, Etta_31, Benjalauren_32, Christoph_31, StingRay_31, Erla_31, Duocatuli_31, Clancy_31, Symere_32, Baines_31, Bonino_31, JasperRussell_31, Kale_31, StirfryIV_31, HankSprout_32, Chako_31, Jerbirus_32, Papafritta_31, HungryHenry_31, Rog141_31, RosieMae_32, Pocket_31, HanSolo_31, Garey24_31
- Track 2 : ManRay_31, Asta_31, 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 42 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AranulaLuti_31, Asta_31, 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, Exploradora_31, Garey24_31, Gelo_31, Gershwin_31, Gubbabump_31, HanSolo_31, HankSprout_32, HungryHenry_31, 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_31, RosieMae_32, Sedgewig_31, SonOfLevi_31, StingRay_31, StirfryIV_31, Symere_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 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 42 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AranulaLuti_31 (EA1), Asta_31 (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), Exploradora_31 (EA1), Garey24_31 (EA1), Gelo_31 (EA1), Gershwin_31 (EA1), Gubbabump_31 (EA1), HanSolo_31 (EA1), HankSprout_32 (EA1), HungryHenry_31 (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_31 (EA1), RosieMae_32 (EA1), Sedgewig_31 (EA1), SonOfLevi_31 (EA1), StingRay_31 (EA1), StirfryIV_31 (EA1), Symere_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 42 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 42 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Asta_31 Start: 21919, Stop: 21656, Start Num: 1

Candidate Starts for Asta_31:

(Start: 1 @21919 has 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 MA's), (2, 21846), (3, 21813), (4, 21795), (5, 21768), (6, 21756), (7, 21750), (8, 21735), (9, 21690),

Gene: Exploradora_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for Exploradora_31:

(Start: 1 @21906 has 42 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

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

Candidate Starts for Garey24_31:

(Start: 1 @21882 has 42 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 42 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 42 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 42 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 42 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: HankSprout_32 Start: 21786, Stop: 21523, Start Num: 1

Candidate Starts for HankSprout_32:

(Start: 1 @21786 has 42 MA's), (2, 21729), (3, 21696), (4, 21678), (5, 21651), (6, 21639), (7, 21633), (8, 21618), (9, 21573),

Gene: HungryHenry_31 Start: 21917, Stop: 21654, Start Num: 1

Candidate Starts for HungryHenry_31:

(Start: 1 @21917 has 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 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 42 MA's), (2, 21847), (3, 21814), (4, 21796), (5, 21769), (6, 21757), (7, 21751),
(8, 21736), (9, 21691),

Gene: Rog141_31 Start: 21906, Stop: 21643, Start Num: 1
Candidate Starts for Rog141_31:

(Start: 1 @21906 has 42 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: RosieMae_32 Start: 21916, Stop: 21653, Start Num: 1

Candidate Starts for RosieMae_32:

(Start: 1 @21916 has 42 MA's), (2, 21859), (3, 21826), (4, 21808), (5, 21781), (6, 21769), (7, 21763), (8, 21748), (9, 21703),

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

Candidate Starts for Sedgewig_31:

(Start: 1 @21898 has 42 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 42 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 42 MA's), (2, 21859), (3, 21826), (4, 21808), (5, 21781), (6, 21769), (7, 21763), (8, 21748), (9, 21703),

Gene: StirfryIV_31 Start: 21906, Stop: 21643, Start Num: 1

Candidate Starts for StirfryIV_31:

(Start: 1 @21906 has 42 MA's), (2, 21849), (3, 21816), (4, 21798), (5, 21771), (6, 21759), (7, 21753), (8, 21738), (9, 21693),

Gene: Symere_32 Start: 21896, Stop: 21633, Start Num: 1

Candidate Starts for Symere_32:

(Start: 1 @21896 has 42 MA's), (2, 21839), (3, 21806), (4, 21788), (5, 21761), (6, 21749), (7, 21743), (8, 21728), (9, 21683),

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

Candidate Starts for TeddyBear_31:

(Start: 1 @21919 has 42 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 42 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 42 MA's), (2, 21848), (3, 21815), (4, 21797), (5, 21770), (6, 21758), (7, 21752), (8, 21737), (9, 21692),