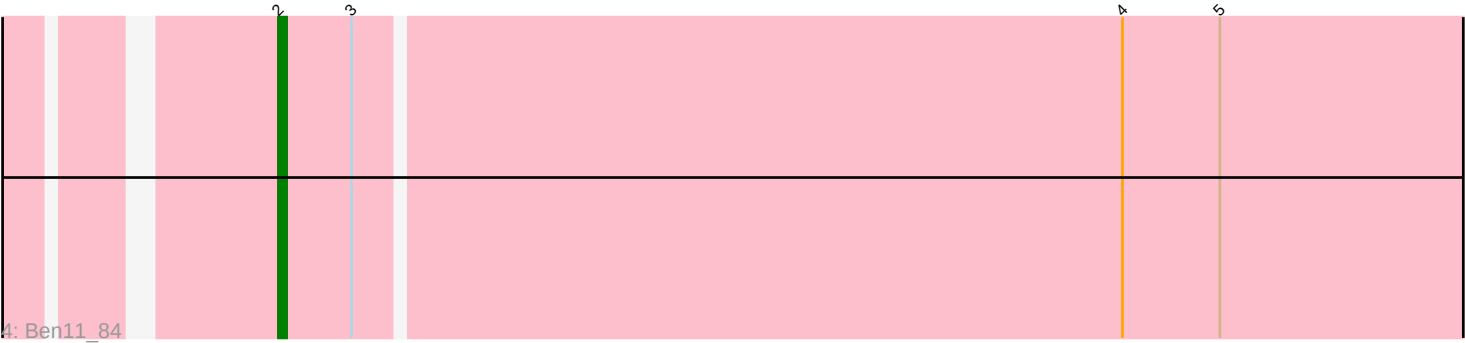
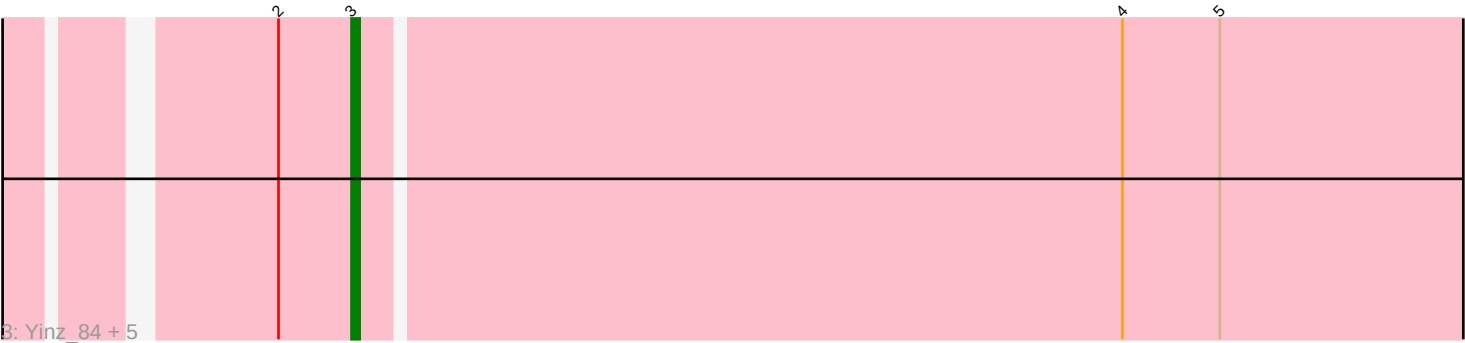




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 237037 Report

This analysis was run 02/07/26 on database version 634.

Pham number 237037 has 56 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Gadget_86, Bernardo_86, Pipefish_87
- Track 2 : Jackstina_78, Kronus_84, Audrey_84, Nozo_84, GlenHope_85, ChaChing_84, Heathcliff_84, Compostia_83, Mortcellus_84, SynergyX_84, Baloo_83, OrangeOswald_83, Obutu_86, SlippinJimmy_87, SwainyDoc_85, Briakila_84, LestyG_82, Athena_86, Akoma_84, Mulaychimus_85, Abinghost_84, Philly_83, Marlia_85, Olivio_84, TinyTerror_85, Shenandoah_83, Chandler_84, Tydolla_80, Devonte_82, Phayeta_87, Deenasa_84, RomaT_84, Chentzyk_86, Daisy_83, Kamiyu_84, Chalmers_83, Gervas_85, RagingRooster_83, Corofin_84, Phlyer_84, Rita1961_85, Halfpint_83, Casbah_84, Yahalom_82, Phaedruss_79, Glubnar_85
- Track 3 : Yinz_84, HarveySr_83, MmasiCarm_85, Morty007_83, Neos5_84, Marley1013_85
- Track 4 : Ben11_84

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

The start number called the most often in the published annotations is 3, it was called in 46 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_84, Akoma_84, Athena_86, Audrey_84, Baloo_83, Briakila_84, Casbah_84, ChaChing_84, Chalmers_83, Chandler_84, Chentzyk_86, Compostia_83, Corofin_84, Daisy_83, Deenasa_84, Devonte_82, Gervas_85, GlenHope_85, Glubnar_85, Halfpint_83, HarveySr_83, Heathcliff_84, Jackstina_78, Kamiyu_84, Kronus_84, LestyG_82, Marley1013_85, Marlia_85, MmasiCarm_85, Mortcellus_84, Morty007_83, Mulaychimus_85, Neos5_84, Nozo_84, Obutu_86, Olivio_84, OrangeOswald_83, Phaedruss_79, Phayeta_87, Philly_83, Phlyer_84, RagingRooster_83, Rita1961_85, RomaT_84, Shenandoah_83, SlippinJimmy_87, SwainyDoc_85, SynergyX_84, TinyTerror_85, Tydolla_80, Yahalom_82, Yinz_84,

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

- Ben11_84,

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

- Bernardo_86, Gadget_86, Pipefish_87,

Summary by start number:

Start 1:

- Found in 3 of 56 (5.4%) of genes in pham
- Manual Annotations of this start: 3 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernardo_86 (B3), Gadget_86 (B3), Pipefish_87 (B3),

Start 2:

- Found in 53 of 56 (94.6%) of genes in pham
- Manual Annotations of this start: 1 of 50
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Ben11_84 (B3),

Start 3:

- Found in 53 of 56 (94.6%) of genes in pham
- Manual Annotations of this start: 46 of 50
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Abinghost_84 (B3), Akoma_84 (B3), Athena_86 (B3), Audrey_84 (B3), Baloo_83 (B3), Briakila_84 (B3), Casbah_84 (B3), ChaChing_84 (B3), Chalmers_83 (B3), Chandler_84 (B3), Chentzyk_86 (B3), Compostia_83 (B3), Corofin_84 (B3), Daisy_83 (B3), Deenasa_84 (B3), Devonte_82 (B3), Gervas_85 (B3), GlenHope_85 (B3), Glubnar_85 (B3), Halfpint_83 (B3), HarveySr_83 (B3), Heathcliff_84 (B3), Jackstina_78 (B3), Kamiyu_84 (B3), Kronus_84 (B3), LestyG_82 (B3), Marley1013_85 (B3), Marlia_85 (B3), MmasiCarm_85 (B3), Mortcellus_84 (B3), Morty007_83 (B3), Mulaychimus_85 (B3), Neos5_84 (B3), Nozo_84 (B3), Obutu_86 (B3), Olivio_84 (B3), OrangeOswald_83 (B3), Phaedruss_79 (B3), Phayeta_87 (B3), Philly_83 (B3), Phlyer_84 (B3), RagingRooster_83 (B3), Rita1961_85 (B3), RomaT_84 (B3), Shenandoah_83 (B3), SlippinJimmy_87 (B3), SwainyDoc_85 (B3), SynergyX_84 (B3), TinyTerror_85 (B3), Tydolla_80 (B3), Yahalom_82 (B3), Yinz_84 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 1 was manually annotated 3 times for cluster B3.
- Start number 2 was manually annotated 1 time for cluster B3.
- Start number 3 was manually annotated 46 times for cluster B3.

Gene Information:

Gene: Abinghost_84 Start: 61809, Stop: 61651, Start Num: 3

Candidate Starts for Abinghost_84:

(Start: 2 @61818 has 1 MA's), (Start: 3 @61809 has 46 MA's), (4, 61716), (5, 61704),

Gene: Akoma_84 Start: 61849, Stop: 61691, Start Num: 3

Candidate Starts for Akoma_84:

(Start: 2 @61858 has 1 MA's), (Start: 3 @61849 has 46 MA's), (4, 61756), (5, 61744),

Gene: Athena_86 Start: 62584, Stop: 62426, Start Num: 3

Candidate Starts for Athena_86:

(Start: 2 @62593 has 1 MA's), (Start: 3 @62584 has 46 MA's), (4, 62491), (5, 62479),

Gene: Audrey_84 Start: 61838, Stop: 61680, Start Num: 3

Candidate Starts for Audrey_84:

(Start: 2 @61847 has 1 MA's), (Start: 3 @61838 has 46 MA's), (4, 61745), (5, 61733),

Gene: Baloo_83 Start: 61690, Stop: 61532, Start Num: 3

Candidate Starts for Baloo_83:

(Start: 2 @61699 has 1 MA's), (Start: 3 @61690 has 46 MA's), (4, 61597), (5, 61585),

Gene: Ben11_84 Start: 62074, Stop: 61907, Start Num: 2

Candidate Starts for Ben11_84:

(Start: 2 @62074 has 1 MA's), (Start: 3 @62065 has 46 MA's), (4, 61972), (5, 61960),

Gene: Bernardo_86 Start: 62402, Stop: 62199, Start Num: 1

Candidate Starts for Bernardo_86:

(Start: 1 @62402 has 3 MA's), (4, 62294), (5, 62282),

Gene: Briakila_84 Start: 62036, Stop: 61878, Start Num: 3

Candidate Starts for Briakila_84:

(Start: 2 @62045 has 1 MA's), (Start: 3 @62036 has 46 MA's), (4, 61943), (5, 61931),

Gene: Casbah_84 Start: 62149, Stop: 61991, Start Num: 3

Candidate Starts for Casbah_84:

(Start: 2 @62158 has 1 MA's), (Start: 3 @62149 has 46 MA's), (4, 62056), (5, 62044),

Gene: ChaChing_84 Start: 61854, Stop: 61696, Start Num: 3

Candidate Starts for ChaChing_84:

(Start: 2 @61863 has 1 MA's), (Start: 3 @61854 has 46 MA's), (4, 61761), (5, 61749),

Gene: Chalmers_83 Start: 62284, Stop: 62126, Start Num: 3

Candidate Starts for Chalmers_83:

(Start: 2 @62293 has 1 MA's), (Start: 3 @62284 has 46 MA's), (4, 62191), (5, 62179),

Gene: Chandler_84 Start: 62625, Stop: 62467, Start Num: 3

Candidate Starts for Chandler_84:

(Start: 2 @62634 has 1 MA's), (Start: 3 @62625 has 46 MA's), (4, 62532), (5, 62520),

Gene: Chentzyk_86 Start: 62783, Stop: 62634, Start Num: 3

Candidate Starts for Chentzyk_86:

(Start: 2 @62792 has 1 MA's), (Start: 3 @62783 has 46 MA's), (4, 62699), (5, 62687),

Gene: Compostia_83 Start: 62294, Stop: 62136, Start Num: 3

Candidate Starts for Compostia_83:

(Start: 2 @62303 has 1 MA's), (Start: 3 @62294 has 46 MA's), (4, 62201), (5, 62189),

Gene: Corofin_84 Start: 61860, Stop: 61702, Start Num: 3

Candidate Starts for Corofin_84:

(Start: 2 @61869 has 1 MA's), (Start: 3 @61860 has 46 MA's), (4, 61767), (5, 61755),

Gene: Daisy_83 Start: 61411, Stop: 61253, Start Num: 3
Candidate Starts for Daisy_83:
(Start: 2 @61420 has 1 MA's), (Start: 3 @61411 has 46 MA's), (4, 61318), (5, 61306),

Gene: Deenasa_84 Start: 62760, Stop: 62602, Start Num: 3
Candidate Starts for Deenasa_84:
(Start: 2 @62769 has 1 MA's), (Start: 3 @62760 has 46 MA's), (4, 62667), (5, 62655),

Gene: Devonte_82 Start: 61477, Stop: 61319, Start Num: 3
Candidate Starts for Devonte_82:
(Start: 2 @61486 has 1 MA's), (Start: 3 @61477 has 46 MA's), (4, 61384), (5, 61372),

Gene: Gadget_86 Start: 62585, Stop: 62382, Start Num: 1
Candidate Starts for Gadget_86:
(Start: 1 @62585 has 3 MA's), (4, 62477), (5, 62465),

Gene: Gervas_85 Start: 62305, Stop: 62147, Start Num: 3
Candidate Starts for Gervas_85:
(Start: 2 @62314 has 1 MA's), (Start: 3 @62305 has 46 MA's), (4, 62212), (5, 62200),

Gene: GlenHope_85 Start: 61884, Stop: 61726, Start Num: 3
Candidate Starts for GlenHope_85:
(Start: 2 @61893 has 1 MA's), (Start: 3 @61884 has 46 MA's), (4, 61791), (5, 61779),

Gene: Glubnar_85 Start: 61743, Stop: 61585, Start Num: 3
Candidate Starts for Glubnar_85:
(Start: 2 @61752 has 1 MA's), (Start: 3 @61743 has 46 MA's), (4, 61650), (5, 61638),

Gene: Halfpint_83 Start: 61626, Stop: 61468, Start Num: 3
Candidate Starts for Halfpint_83:
(Start: 2 @61635 has 1 MA's), (Start: 3 @61626 has 46 MA's), (4, 61533), (5, 61521),

Gene: HarveySr_83 Start: 61395, Stop: 61237, Start Num: 3
Candidate Starts for HarveySr_83:
(Start: 2 @61404 has 1 MA's), (Start: 3 @61395 has 46 MA's), (4, 61302), (5, 61290),

Gene: Heathcliff_84 Start: 61805, Stop: 61647, Start Num: 3
Candidate Starts for Heathcliff_84:
(Start: 2 @61814 has 1 MA's), (Start: 3 @61805 has 46 MA's), (4, 61712), (5, 61700),

Gene: Jackstina_78 Start: 61719, Stop: 61561, Start Num: 3
Candidate Starts for Jackstina_78:
(Start: 2 @61728 has 1 MA's), (Start: 3 @61719 has 46 MA's), (4, 61626), (5, 61614),

Gene: Kamiyu_84 Start: 61808, Stop: 61650, Start Num: 3
Candidate Starts for Kamiyu_84:
(Start: 2 @61817 has 1 MA's), (Start: 3 @61808 has 46 MA's), (4, 61715), (5, 61703),

Gene: Kronus_84 Start: 62892, Stop: 62734, Start Num: 3
Candidate Starts for Kronus_84:
(Start: 2 @62901 has 1 MA's), (Start: 3 @62892 has 46 MA's), (4, 62799), (5, 62787),

Gene: LestyG_82 Start: 61378, Stop: 61220, Start Num: 3
Candidate Starts for LestyG_82:
(Start: 2 @61387 has 1 MA's), (Start: 3 @61378 has 46 MA's), (4, 61285), (5, 61273),

Gene: Marley1013_85 Start: 62744, Stop: 62586, Start Num: 3
Candidate Starts for Marley1013_85:
(Start: 2 @62753 has 1 MA's), (Start: 3 @62744 has 46 MA's), (4, 62651), (5, 62639),

Gene: Marlia_85 Start: 62277, Stop: 62119, Start Num: 3
Candidate Starts for Marlia_85:
(Start: 2 @62286 has 1 MA's), (Start: 3 @62277 has 46 MA's), (4, 62184), (5, 62172),

Gene: MmasiCarm_85 Start: 62247, Stop: 62089, Start Num: 3
Candidate Starts for MmasiCarm_85:
(Start: 2 @62256 has 1 MA's), (Start: 3 @62247 has 46 MA's), (4, 62154), (5, 62142),

Gene: Mortcellus_84 Start: 62973, Stop: 62815, Start Num: 3
Candidate Starts for Mortcellus_84:
(Start: 2 @62982 has 1 MA's), (Start: 3 @62973 has 46 MA's), (4, 62880), (5, 62868),

Gene: Morty007_83 Start: 62744, Stop: 62586, Start Num: 3
Candidate Starts for Morty007_83:
(Start: 2 @62753 has 1 MA's), (Start: 3 @62744 has 46 MA's), (4, 62651), (5, 62639),

Gene: Mulaychimus_85 Start: 62257, Stop: 62099, Start Num: 3
Candidate Starts for Mulaychimus_85:
(Start: 2 @62266 has 1 MA's), (Start: 3 @62257 has 46 MA's), (4, 62164), (5, 62152),

Gene: Neos5_84 Start: 62206, Stop: 62048, Start Num: 3
Candidate Starts for Neos5_84:
(Start: 2 @62215 has 1 MA's), (Start: 3 @62206 has 46 MA's), (4, 62113), (5, 62101),

Gene: Nozo_84 Start: 62615, Stop: 62457, Start Num: 3
Candidate Starts for Nozo_84:
(Start: 2 @62624 has 1 MA's), (Start: 3 @62615 has 46 MA's), (4, 62522), (5, 62510),

Gene: Obutu_86 Start: 62418, Stop: 62260, Start Num: 3
Candidate Starts for Obutu_86:
(Start: 2 @62427 has 1 MA's), (Start: 3 @62418 has 46 MA's), (4, 62325), (5, 62313),

Gene: Olivio_84 Start: 62059, Stop: 61901, Start Num: 3
Candidate Starts for Olivio_84:
(Start: 2 @62068 has 1 MA's), (Start: 3 @62059 has 46 MA's), (4, 61966), (5, 61954),

Gene: OrangeOswald_83 Start: 61850, Stop: 61692, Start Num: 3
Candidate Starts for OrangeOswald_83:
(Start: 2 @61859 has 1 MA's), (Start: 3 @61850 has 46 MA's), (4, 61757), (5, 61745),

Gene: Phaedruss_79 Start: 61266, Stop: 61108, Start Num: 3
Candidate Starts for Phaedruss_79:
(Start: 2 @61275 has 1 MA's), (Start: 3 @61266 has 46 MA's), (4, 61173), (5, 61161),

Gene: Phayeta_87 Start: 62335, Stop: 62177, Start Num: 3

Candidate Starts for Phayeta_87:
(Start: 2 @62344 has 1 MA's), (Start: 3 @62335 has 46 MA's), (4, 62242), (5, 62230),

Gene: Philly_83 Start: 61698, Stop: 61540, Start Num: 3
Candidate Starts for Philly_83:
(Start: 2 @61707 has 1 MA's), (Start: 3 @61698 has 46 MA's), (4, 61605), (5, 61593),

Gene: Phlyer_84 Start: 62561, Stop: 62403, Start Num: 3
Candidate Starts for Phlyer_84:
(Start: 2 @62570 has 1 MA's), (Start: 3 @62561 has 46 MA's), (4, 62468), (5, 62456),

Gene: Pipefish_87 Start: 63331, Stop: 63128, Start Num: 1
Candidate Starts for Pipefish_87:
(Start: 1 @63331 has 3 MA's), (4, 63223), (5, 63211),

Gene: RagingRooster_83 Start: 61541, Stop: 61383, Start Num: 3
Candidate Starts for RagingRooster_83:
(Start: 2 @61550 has 1 MA's), (Start: 3 @61541 has 46 MA's), (4, 61448), (5, 61436),

Gene: Rita1961_85 Start: 62195, Stop: 62037, Start Num: 3
Candidate Starts for Rita1961_85:
(Start: 2 @62204 has 1 MA's), (Start: 3 @62195 has 46 MA's), (4, 62102), (5, 62090),

Gene: RomaT_84 Start: 62415, Stop: 62257, Start Num: 3
Candidate Starts for RomaT_84:
(Start: 2 @62424 has 1 MA's), (Start: 3 @62415 has 46 MA's), (4, 62322), (5, 62310),

Gene: Shenandoah_83 Start: 61461, Stop: 61303, Start Num: 3
Candidate Starts for Shenandoah_83:
(Start: 2 @61470 has 1 MA's), (Start: 3 @61461 has 46 MA's), (4, 61368), (5, 61356),

Gene: SlippinJimmy_87 Start: 63225, Stop: 63067, Start Num: 3
Candidate Starts for SlippinJimmy_87:
(Start: 2 @63234 has 1 MA's), (Start: 3 @63225 has 46 MA's), (4, 63132), (5, 63120),

Gene: SwainyDoc_85 Start: 62224, Stop: 62066, Start Num: 3
Candidate Starts for SwainyDoc_85:
(Start: 2 @62233 has 1 MA's), (Start: 3 @62224 has 46 MA's), (4, 62131), (5, 62119),

Gene: SynergyX_84 Start: 61852, Stop: 61694, Start Num: 3
Candidate Starts for SynergyX_84:
(Start: 2 @61861 has 1 MA's), (Start: 3 @61852 has 46 MA's), (4, 61759), (5, 61747),

Gene: TinyTerror_85 Start: 62275, Stop: 62117, Start Num: 3
Candidate Starts for TinyTerror_85:
(Start: 2 @62284 has 1 MA's), (Start: 3 @62275 has 46 MA's), (4, 62182), (5, 62170),

Gene: Tydolla_80 Start: 61831, Stop: 61673, Start Num: 3
Candidate Starts for Tydolla_80:
(Start: 2 @61840 has 1 MA's), (Start: 3 @61831 has 46 MA's), (4, 61738), (5, 61726),

Gene: Yahalom_82 Start: 61658, Stop: 61500, Start Num: 3
Candidate Starts for Yahalom_82:

(Start: 2 @61667 has 1 MA's), (Start: 3 @61658 has 46 MA's), (4, 61565), (5, 61553),

Gene: Yinz_84 Start: 61723, Stop: 61565, Start Num: 3

Candidate Starts for Yinz_84:

(Start: 2 @61732 has 1 MA's), (Start: 3 @61723 has 46 MA's), (4, 61630), (5, 61618),