



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 224627 Report

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

Pham number 224627 has 55 members, 10 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, Abinghost_84, Philly_83, Marlia_85, Olivio_84, TinyTerror_85, Shenandoah_83, Ben11_84, 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, Phaedrus_79, Glubnar_84
- Track 3 : Yinz_84, HarveySr_83, MmasiCarm_85, Morty007_83, Neos5_84, Marley1013_85

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 42 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_84, Akoma_84, Athena_86, Audrey_84, Baloo_83, Ben11_84, 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_84, Halfpint_83, HarveySr_83, Heathcliff_84, Jackstina_78, Kamiyu_84, Kronus_84, LestyG_82, Marley1013_85, Marlia_85, MmasiCarm_85, Mortcellus_84, Morty007_83, Neos5_84, Nozo_84, Obutu_86, Olivio_84, OrangeOswald_83, Phaedrus_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:

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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 55 (5.5%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernardo_86 (B3), Gadget_86 (B3), Pipefish_87 (B3),

Start 3:

- Found in 52 of 55 (94.5%) of genes in pham
- Manual Annotations of this start: 42 of 45
- Called 100.0% 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), Ben11_84 (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_84 (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), Neos5_84 (B3), Nozo_84 (B3), Obutu_86 (B3), Olivio_84 (B3), OrangeOswald_83 (B3), Phaedrus_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 3 was manually annotated 42 times for cluster B3.

Gene Information:

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

Candidate Starts for Abinghost_84:

(2, 61818), (Start: 3 @61809 has 42 MA's), (4, 61716), (5, 61704),

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

Candidate Starts for Akoma_84:

(2, 61858), (Start: 3 @61849 has 42 MA's), (4, 61756), (5, 61744),

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

Candidate Starts for Athena_86:

(2, 62593), (Start: 3 @62584 has 42 MA's), (4, 62491), (5, 62479),

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

Candidate Starts for Audrey_84:

(2, 61847), (Start: 3 @61838 has 42 MA's), (4, 61745), (5, 61733),

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

Candidate Starts for Baloo_83:

(2, 61699), (Start: 3 @61690 has 42 MA's), (4, 61597), (5, 61585),

Gene: Ben11_84 Start: 62065, Stop: 61907, Start Num: 3

Candidate Starts for Ben11_84:

(2, 62074), (Start: 3 @62065 has 42 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:

(2, 62045), (Start: 3 @62036 has 42 MA's), (4, 61943), (5, 61931),

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

Candidate Starts for Casbah_84:

(2, 62158), (Start: 3 @62149 has 42 MA's), (4, 62056), (5, 62044),

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

Candidate Starts for ChaChing_84:

(2, 61863), (Start: 3 @61854 has 42 MA's), (4, 61761), (5, 61749),

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

Candidate Starts for Chalmers_83:

(2, 62293), (Start: 3 @62284 has 42 MA's), (4, 62191), (5, 62179),

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

Candidate Starts for Chandler_84:

(2, 62634), (Start: 3 @62625 has 42 MA's), (4, 62532), (5, 62520),

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

Candidate Starts for Chentzyk_86:

(2, 62792), (Start: 3 @62783 has 42 MA's), (4, 62699), (5, 62687),

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

Candidate Starts for Compostia_83:

(2, 62303), (Start: 3 @62294 has 42 MA's), (4, 62201), (5, 62189),

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

Candidate Starts for Corofin_84:

(2, 61869), (Start: 3 @61860 has 42 MA's), (4, 61767), (5, 61755),

Gene: Daisy_83 Start: 61411, Stop: 61253, Start Num: 3

Candidate Starts for Daisy_83:

(2, 61420), (Start: 3 @61411 has 42 MA's), (4, 61318), (5, 61306),

Gene: Deenasa_84 Start: 62760, Stop: 62602, Start Num: 3

Candidate Starts for Deenasa_84:

(2, 62769), (Start: 3 @62760 has 42 MA's), (4, 62667), (5, 62655),

Gene: Devonte_82 Start: 61477, Stop: 61319, Start Num: 3
Candidate Starts for Devonte_82:
(2, 61486), (Start: 3 @61477 has 42 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:
(2, 62314), (Start: 3 @62305 has 42 MA's), (4, 62212), (5, 62200),

Gene: GlenHope_85 Start: 61884, Stop: 61726, Start Num: 3
Candidate Starts for GlenHope_85:
(2, 61893), (Start: 3 @61884 has 42 MA's), (4, 61791), (5, 61779),

Gene: Glubnar_84 Start: 61743, Stop: 61585, Start Num: 3
Candidate Starts for Glubnar_84:
(2, 61752), (Start: 3 @61743 has 42 MA's), (4, 61650), (5, 61638),

Gene: Halfpint_83 Start: 61626, Stop: 61468, Start Num: 3
Candidate Starts for Halfpint_83:
(2, 61635), (Start: 3 @61626 has 42 MA's), (4, 61533), (5, 61521),

Gene: HarveySr_83 Start: 61395, Stop: 61237, Start Num: 3
Candidate Starts for HarveySr_83:
(2, 61404), (Start: 3 @61395 has 42 MA's), (4, 61302), (5, 61290),

Gene: Heathcliff_84 Start: 61805, Stop: 61647, Start Num: 3
Candidate Starts for Heathcliff_84:
(2, 61814), (Start: 3 @61805 has 42 MA's), (4, 61712), (5, 61700),

Gene: Jackstina_78 Start: 61719, Stop: 61561, Start Num: 3
Candidate Starts for Jackstina_78:
(2, 61728), (Start: 3 @61719 has 42 MA's), (4, 61626), (5, 61614),

Gene: Kamiyu_84 Start: 61808, Stop: 61650, Start Num: 3
Candidate Starts for Kamiyu_84:
(2, 61817), (Start: 3 @61808 has 42 MA's), (4, 61715), (5, 61703),

Gene: Kronus_84 Start: 62892, Stop: 62734, Start Num: 3
Candidate Starts for Kronus_84:
(2, 62901), (Start: 3 @62892 has 42 MA's), (4, 62799), (5, 62787),

Gene: LestyG_82 Start: 61378, Stop: 61220, Start Num: 3
Candidate Starts for LestyG_82:
(2, 61387), (Start: 3 @61378 has 42 MA's), (4, 61285), (5, 61273),

Gene: Marley1013_85 Start: 62744, Stop: 62586, Start Num: 3
Candidate Starts for Marley1013_85:
(2, 62753), (Start: 3 @62744 has 42 MA's), (4, 62651), (5, 62639),

Gene: Marlia_85 Start: 62277, Stop: 62119, Start Num: 3
Candidate Starts for Marlia_85:
(2, 62286), (Start: 3 @62277 has 42 MA's), (4, 62184), (5, 62172),

Gene: MmasiCarm_85 Start: 62247, Stop: 62089, Start Num: 3
Candidate Starts for MmasiCarm_85:
(2, 62256), (Start: 3 @62247 has 42 MA's), (4, 62154), (5, 62142),

Gene: Mortcellus_84 Start: 62973, Stop: 62815, Start Num: 3
Candidate Starts for Mortcellus_84:
(2, 62982), (Start: 3 @62973 has 42 MA's), (4, 62880), (5, 62868),

Gene: Morty007_83 Start: 62744, Stop: 62586, Start Num: 3
Candidate Starts for Morty007_83:
(2, 62753), (Start: 3 @62744 has 42 MA's), (4, 62651), (5, 62639),

Gene: Neos5_84 Start: 62206, Stop: 62048, Start Num: 3
Candidate Starts for Neos5_84:
(2, 62215), (Start: 3 @62206 has 42 MA's), (4, 62113), (5, 62101),

Gene: Nozo_84 Start: 62615, Stop: 62457, Start Num: 3
Candidate Starts for Nozo_84:
(2, 62624), (Start: 3 @62615 has 42 MA's), (4, 62522), (5, 62510),

Gene: Obutu_86 Start: 62418, Stop: 62260, Start Num: 3
Candidate Starts for Obutu_86:
(2, 62427), (Start: 3 @62418 has 42 MA's), (4, 62325), (5, 62313),

Gene: Olivio_84 Start: 62059, Stop: 61901, Start Num: 3
Candidate Starts for Olivio_84:
(2, 62068), (Start: 3 @62059 has 42 MA's), (4, 61966), (5, 61954),

Gene: OrangeOswald_83 Start: 61850, Stop: 61692, Start Num: 3
Candidate Starts for OrangeOswald_83:
(2, 61859), (Start: 3 @61850 has 42 MA's), (4, 61757), (5, 61745),

Gene: Phaedrus_79 Start: 61266, Stop: 61108, Start Num: 3
Candidate Starts for Phaedrus_79:
(2, 61275), (Start: 3 @61266 has 42 MA's), (4, 61173), (5, 61161),

Gene: Phayeta_87 Start: 62335, Stop: 62177, Start Num: 3
Candidate Starts for Phayeta_87:
(2, 62344), (Start: 3 @62335 has 42 MA's), (4, 62242), (5, 62230),

Gene: Philly_83 Start: 61698, Stop: 61540, Start Num: 3
Candidate Starts for Philly_83:
(2, 61707), (Start: 3 @61698 has 42 MA's), (4, 61605), (5, 61593),

Gene: Phlyer_84 Start: 62561, Stop: 62403, Start Num: 3
Candidate Starts for Phlyer_84:
(2, 62570), (Start: 3 @62561 has 42 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:

(2, 61550), (Start: 3 @61541 has 42 MA's), (4, 61448), (5, 61436),

Gene: Rita1961_85 Start: 62195, Stop: 62037, Start Num: 3

Candidate Starts for Rita1961_85:

(2, 62204), (Start: 3 @62195 has 42 MA's), (4, 62102), (5, 62090),

Gene: RomaT_84 Start: 62415, Stop: 62257, Start Num: 3

Candidate Starts for RomaT_84:

(2, 62424), (Start: 3 @62415 has 42 MA's), (4, 62322), (5, 62310),

Gene: Shenandoah_83 Start: 61461, Stop: 61303, Start Num: 3

Candidate Starts for Shenandoah_83:

(2, 61470), (Start: 3 @61461 has 42 MA's), (4, 61368), (5, 61356),

Gene: SlippinJimmy_87 Start: 63225, Stop: 63067, Start Num: 3

Candidate Starts for SlippinJimmy_87:

(2, 63234), (Start: 3 @63225 has 42 MA's), (4, 63132), (5, 63120),

Gene: SwainyDoc_85 Start: 62224, Stop: 62066, Start Num: 3

Candidate Starts for SwainyDoc_85:

(2, 62233), (Start: 3 @62224 has 42 MA's), (4, 62131), (5, 62119),

Gene: SynergyX_84 Start: 61852, Stop: 61694, Start Num: 3

Candidate Starts for SynergyX_84:

(2, 61861), (Start: 3 @61852 has 42 MA's), (4, 61759), (5, 61747),

Gene: TinyTerror_85 Start: 62275, Stop: 62117, Start Num: 3

Candidate Starts for TinyTerror_85:

(2, 62284), (Start: 3 @62275 has 42 MA's), (4, 62182), (5, 62170),

Gene: Tydolla_80 Start: 61831, Stop: 61673, Start Num: 3

Candidate Starts for Tydolla_80:

(2, 61840), (Start: 3 @61831 has 42 MA's), (4, 61738), (5, 61726),

Gene: Yahalom_82 Start: 61658, Stop: 61500, Start Num: 3

Candidate Starts for Yahalom_82:

(2, 61667), (Start: 3 @61658 has 42 MA's), (4, 61565), (5, 61553),

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

Candidate Starts for Yinz_84:

(2, 61732), (Start: 3 @61723 has 42 MA's), (4, 61630), (5, 61618),