



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 2196 Report

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

Pham number 2196 has 46 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Kronus_81, Nozo_81, Audrey_81, GlenHope_82, Rita1961_82, Bernardo_82, Heathcliff_81, ChaChing_81, Mortcellus_81, Compostia_80, Obutu_83, Baloo_80, OrangeOswald_80, Yinz_81, Athena_83, Akoma_81, Devonte_79, Briakila_81, Yahalom_79, Philly_80, Phaedrus_76, HarveySr_80, MmasiCarm_82, Gadget_82, Morty007_80, Phayeta_84, Chandler_81, RagingRooster_80, Deenasa_81, RomaT_81, Daisy_80, Gervas_82, Neos5_81, Corofin_81, Casbah_81, SlippinJimmy_84, Phlyer_81, Pipefish_83
- Track 2 : Tydolla_77, SynergyX_81, Kamiyu_81
- Track 3 : LestyG_79, Abinghost_81, Ben11_81, Marley1013_82, Halfpint_81

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

The start number called the most often in the published annotations is 4, it was called in 37 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoma_81, Athena_83, Audrey_81, Baloo_80, Bernardo_82, Briakila_81, Casbah_81, ChaChing_81, Chandler_81, Compostia_80, Corofin_81, Daisy_80, Deenasa_81, Devonte_79, Gadget_82, Gervas_82, GlenHope_82, HarveySr_80, Heathcliff_81, Kronus_81, MmasiCarm_82, Mortcellus_81, Morty007_80, Neos5_81, Nozo_81, Obutu_83, OrangeOswald_80, Phaedrus_76, Phayeta_84, Philly_80, Phlyer_81, Pipefish_83, RagingRooster_80, Rita1961_82, RomaT_81, SlippinJimmy_84, Yahalom_79, Yinz_81,

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

- Abinghost_81, Ben11_81, Halfpint_81, Kamiyu_81, LestyG_79, Marley1013_82, SynergyX_81, Tydolla_77,

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

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Summary by start number:

Start 2:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 10.9% of time when present
- Phage (with cluster) where this start called: Abinghost_81 (B3), Ben11_81 (B3), Halfpint_81 (B3), LestyG_79 (B3), Marley1013_82 (B3),

Start 3:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 6.5% of time when present
- Phage (with cluster) where this start called: Kamiyu_81 (B3), SynergyX_81 (B3), Tydolla_77 (B3),

Start 4:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 37 of 43
- Called 82.6% of time when present
- Phage (with cluster) where this start called: Akoma_81 (B3), Athena_83 (B3), Audrey_81 (B3), Baloo_80 (B3), Bernardo_82 (B3), Briakila_81 (B3), Casbah_81 (B3), ChaChing_81 (B3), Chandler_81 (B3), Compostia_80 (B3), Corofin_81 (B3), Daisy_80 (B3), Deenasa_81 (B3), Devonte_79 (B3), Gadget_82 (B3), Gervas_82 (B3), GlenHope_82 (B3), HarveySr_80 (B3), Heathcliff_81 (B3), Kronus_81 (B3), MmasiCarm_82 (B3), Mortcellus_81 (B3), Morty007_80 (B3), Neos5_81 (B3), Nozo_81 (B3), Obutu_83 (B3), OrangeOswald_80 (B3), Phaedrus_76 (B3), Phayeta_84 (B3), Philly_80 (B3), Phlyer_81 (B3), Pipefish_83 (B3), RagingRooster_80 (B3), Rita1961_82 (B3), RomaT_81 (B3), SlippinJimmy_84 (B3), Yahalom_79 (B3), Yinz_81 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 2 was manually annotated 3 times for cluster B3.
- Start number 3 was manually annotated 3 times for cluster B3.
- Start number 4 was manually annotated 37 times for cluster B3.

Gene Information:

Gene: Abinghost_81 Start: 61365, Stop: 61228, Start Num: 2

Candidate Starts for Abinghost_81:

(1, 61434), (Start: 2 @61365 has 3 MA's), (Start: 3 @61335 has 3 MA's), (Start: 4 @61326 has 37 MA's),

Gene: Akoma_81 Start: 61366, Stop: 61262, Start Num: 4

Candidate Starts for Akoma_81:

(1, 61474), (Start: 2 @61405 has 3 MA's), (Start: 3 @61375 has 3 MA's), (Start: 4 @61366 has 37 MA's),

Gene: Athena_83 Start: 62101, Stop: 62003, Start Num: 4

Candidate Starts for Athena_83:

(1, 62209), (Start: 2 @62140 has 3 MA's), (Start: 3 @62110 has 3 MA's), (Start: 4 @62101 has 37 MA's),

Gene: Audrey_81 Start: 61355, Stop: 61257, Start Num: 4

Candidate Starts for Audrey_81:

(1, 61463), (Start: 2 @61394 has 3 MA's), (Start: 3 @61364 has 3 MA's), (Start: 4 @61355 has 37 MA's),

Gene: Baloo_80 Start: 61207, Stop: 61109, Start Num: 4

Candidate Starts for Baloo_80:

(1, 61315), (Start: 2 @61246 has 3 MA's), (Start: 3 @61216 has 3 MA's), (Start: 4 @61207 has 37 MA's),

Gene: Ben11_81 Start: 61621, Stop: 61484, Start Num: 2

Candidate Starts for Ben11_81:

(1, 61690), (Start: 2 @61621 has 3 MA's), (Start: 3 @61591 has 3 MA's), (Start: 4 @61582 has 37 MA's),

Gene: Bernardo_82 Start: 61545, Stop: 61447, Start Num: 4

Candidate Starts for Bernardo_82:

(1, 61653), (Start: 2 @61584 has 3 MA's), (Start: 3 @61554 has 3 MA's), (Start: 4 @61545 has 37 MA's),

Gene: Briakila_81 Start: 61553, Stop: 61455, Start Num: 4

Candidate Starts for Briakila_81:

(1, 61661), (Start: 2 @61592 has 3 MA's), (Start: 3 @61562 has 3 MA's), (Start: 4 @61553 has 37 MA's),

Gene: Casbah_81 Start: 61666, Stop: 61568, Start Num: 4

Candidate Starts for Casbah_81:

(1, 61774), (Start: 2 @61705 has 3 MA's), (Start: 3 @61675 has 3 MA's), (Start: 4 @61666 has 37 MA's),

Gene: ChaChing_81 Start: 61371, Stop: 61273, Start Num: 4

Candidate Starts for ChaChing_81:

(1, 61479), (Start: 2 @61410 has 3 MA's), (Start: 3 @61380 has 3 MA's), (Start: 4 @61371 has 37 MA's),

Gene: Chandler_81 Start: 62142, Stop: 62044, Start Num: 4

Candidate Starts for Chandler_81:

(1, 62250), (Start: 2 @62181 has 3 MA's), (Start: 3 @62151 has 3 MA's), (Start: 4 @62142 has 37 MA's),

Gene: Compostia_80 Start: 61811, Stop: 61713, Start Num: 4

Candidate Starts for Compostia_80:

(1, 61919), (Start: 2 @61850 has 3 MA's), (Start: 3 @61820 has 3 MA's), (Start: 4 @61811 has 37 MA's),

Gene: Corofin_81 Start: 61377, Stop: 61279, Start Num: 4

Candidate Starts for Corofin_81:

(1, 61485), (Start: 2 @61416 has 3 MA's), (Start: 3 @61386 has 3 MA's), (Start: 4 @61377 has 37 MA's),

Gene: Daisy_80 Start: 60928, Stop: 60830, Start Num: 4
Candidate Starts for Daisy_80:
(1, 61036), (Start: 2 @60967 has 3 MA's), (Start: 3 @60937 has 3 MA's), (Start: 4 @60928 has 37 MA's),

Gene: Deenasa_81 Start: 62277, Stop: 62179, Start Num: 4
Candidate Starts for Deenasa_81:
(1, 62385), (Start: 2 @62316 has 3 MA's), (Start: 3 @62286 has 3 MA's), (Start: 4 @62277 has 37 MA's),

Gene: Devonte_79 Start: 60994, Stop: 60896, Start Num: 4
Candidate Starts for Devonte_79:
(1, 61102), (Start: 2 @61033 has 3 MA's), (Start: 3 @61003 has 3 MA's), (Start: 4 @60994 has 37 MA's),

Gene: Gadget_82 Start: 61728, Stop: 61630, Start Num: 4
Candidate Starts for Gadget_82:
(1, 61836), (Start: 2 @61767 has 3 MA's), (Start: 3 @61737 has 3 MA's), (Start: 4 @61728 has 37 MA's),

Gene: Gervas_82 Start: 61822, Stop: 61724, Start Num: 4
Candidate Starts for Gervas_82:
(1, 61930), (Start: 2 @61861 has 3 MA's), (Start: 3 @61831 has 3 MA's), (Start: 4 @61822 has 37 MA's),

Gene: GlenHope_82 Start: 61401, Stop: 61303, Start Num: 4
Candidate Starts for GlenHope_82:
(1, 61509), (Start: 2 @61440 has 3 MA's), (Start: 3 @61410 has 3 MA's), (Start: 4 @61401 has 37 MA's),

Gene: Halfpint_81 Start: 61182, Stop: 61045, Start Num: 2
Candidate Starts for Halfpint_81:
(1, 61251), (Start: 2 @61182 has 3 MA's), (Start: 3 @61152 has 3 MA's), (Start: 4 @61143 has 37 MA's),

Gene: HarveySr_80 Start: 60912, Stop: 60814, Start Num: 4
Candidate Starts for HarveySr_80:
(1, 61020), (Start: 2 @60951 has 3 MA's), (Start: 3 @60921 has 3 MA's), (Start: 4 @60912 has 37 MA's),

Gene: Heathcliff_81 Start: 61322, Stop: 61224, Start Num: 4
Candidate Starts for Heathcliff_81:
(1, 61430), (Start: 2 @61361 has 3 MA's), (Start: 3 @61331 has 3 MA's), (Start: 4 @61322 has 37 MA's),

Gene: Kamiyu_81 Start: 61334, Stop: 61227, Start Num: 3
Candidate Starts for Kamiyu_81:
(1, 61433), (Start: 2 @61364 has 3 MA's), (Start: 3 @61334 has 3 MA's), (Start: 4 @61325 has 37 MA's),

Gene: Kronus_81 Start: 62409, Stop: 62311, Start Num: 4
Candidate Starts for Kronus_81:

(1, 62517), (Start: 2 @62448 has 3 MA's), (Start: 3 @62418 has 3 MA's), (Start: 4 @62409 has 37 MA's),

Gene: LestyG_79 Start: 60934, Stop: 60797, Start Num: 2

Candidate Starts for LestyG_79:

(1, 61003), (Start: 2 @60934 has 3 MA's), (Start: 3 @60904 has 3 MA's), (Start: 4 @60895 has 37 MA's),

Gene: Marley1013_82 Start: 62300, Stop: 62163, Start Num: 2

Candidate Starts for Marley1013_82:

(1, 62369), (Start: 2 @62300 has 3 MA's), (Start: 3 @62270 has 3 MA's), (Start: 4 @62261 has 37 MA's),

Gene: MmasiCarm_82 Start: 61764, Stop: 61666, Start Num: 4

Candidate Starts for MmasiCarm_82:

(1, 61872), (Start: 2 @61803 has 3 MA's), (Start: 3 @61773 has 3 MA's), (Start: 4 @61764 has 37 MA's),

Gene: Mortcellus_81 Start: 62490, Stop: 62392, Start Num: 4

Candidate Starts for Mortcellus_81:

(1, 62598), (Start: 2 @62529 has 3 MA's), (Start: 3 @62499 has 3 MA's), (Start: 4 @62490 has 37 MA's),

Gene: Morty007_80 Start: 62261, Stop: 62163, Start Num: 4

Candidate Starts for Morty007_80:

(1, 62369), (Start: 2 @62300 has 3 MA's), (Start: 3 @62270 has 3 MA's), (Start: 4 @62261 has 37 MA's),

Gene: Neos5_81 Start: 61723, Stop: 61625, Start Num: 4

Candidate Starts for Neos5_81:

(1, 61831), (Start: 2 @61762 has 3 MA's), (Start: 3 @61732 has 3 MA's), (Start: 4 @61723 has 37 MA's),

Gene: Nozo_81 Start: 62132, Stop: 62034, Start Num: 4

Candidate Starts for Nozo_81:

(1, 62240), (Start: 2 @62171 has 3 MA's), (Start: 3 @62141 has 3 MA's), (Start: 4 @62132 has 37 MA's),

Gene: Obutu_83 Start: 61935, Stop: 61837, Start Num: 4

Candidate Starts for Obutu_83:

(1, 62043), (Start: 2 @61974 has 3 MA's), (Start: 3 @61944 has 3 MA's), (Start: 4 @61935 has 37 MA's),

Gene: OrangeOswald_80 Start: 61367, Stop: 61269, Start Num: 4

Candidate Starts for OrangeOswald_80:

(1, 61475), (Start: 2 @61406 has 3 MA's), (Start: 3 @61376 has 3 MA's), (Start: 4 @61367 has 37 MA's),

Gene: Phaedrus_76 Start: 60783, Stop: 60685, Start Num: 4

Candidate Starts for Phaedrus_76:

(1, 60891), (Start: 2 @60822 has 3 MA's), (Start: 3 @60792 has 3 MA's), (Start: 4 @60783 has 37 MA's),

Gene: Phayeta_84 Start: 61852, Stop: 61754, Start Num: 4

Candidate Starts for Phayeta_84:

(1, 61960), (Start: 2 @61891 has 3 MA's), (Start: 3 @61861 has 3 MA's), (Start: 4 @61852 has 37 MA's),

Gene: Philly_80 Start: 61215, Stop: 61117, Start Num: 4

Candidate Starts for Philly_80:

(1, 61323), (Start: 2 @61254 has 3 MA's), (Start: 3 @61224 has 3 MA's), (Start: 4 @61215 has 37 MA's),

Gene: Phlyer_81 Start: 62078, Stop: 61980, Start Num: 4

Candidate Starts for Phlyer_81:

(1, 62186), (Start: 2 @62117 has 3 MA's), (Start: 3 @62087 has 3 MA's), (Start: 4 @62078 has 37 MA's),

Gene: Pipefish_83 Start: 62474, Stop: 62370, Start Num: 4

Candidate Starts for Pipefish_83:

(1, 62582), (Start: 2 @62513 has 3 MA's), (Start: 3 @62483 has 3 MA's), (Start: 4 @62474 has 37 MA's),

Gene: RagingRooster_80 Start: 61058, Stop: 60960, Start Num: 4

Candidate Starts for RagingRooster_80:

(1, 61166), (Start: 2 @61097 has 3 MA's), (Start: 3 @61067 has 3 MA's), (Start: 4 @61058 has 37 MA's),

Gene: Rita1961_82 Start: 61712, Stop: 61614, Start Num: 4

Candidate Starts for Rita1961_82:

(1, 61820), (Start: 2 @61751 has 3 MA's), (Start: 3 @61721 has 3 MA's), (Start: 4 @61712 has 37 MA's),

Gene: RomaT_81 Start: 61932, Stop: 61834, Start Num: 4

Candidate Starts for RomaT_81:

(1, 62040), (Start: 2 @61971 has 3 MA's), (Start: 3 @61941 has 3 MA's), (Start: 4 @61932 has 37 MA's),

Gene: SlippinJimmy_84 Start: 62742, Stop: 62638, Start Num: 4

Candidate Starts for SlippinJimmy_84:

(1, 62850), (Start: 2 @62781 has 3 MA's), (Start: 3 @62751 has 3 MA's), (Start: 4 @62742 has 37 MA's),

Gene: SynergyX_81 Start: 61378, Stop: 61271, Start Num: 3

Candidate Starts for SynergyX_81:

(1, 61477), (Start: 2 @61408 has 3 MA's), (Start: 3 @61378 has 3 MA's), (Start: 4 @61369 has 37 MA's),

Gene: Tydolla_77 Start: 61357, Stop: 61250, Start Num: 3

Candidate Starts for Tydolla_77:

(1, 61456), (Start: 2 @61387 has 3 MA's), (Start: 3 @61357 has 3 MA's), (Start: 4 @61348 has 37 MA's),

Gene: Yahalom_79 Start: 61175, Stop: 61077, Start Num: 4

Candidate Starts for Yahalom_79:

(1, 61283), (Start: 2 @61214 has 3 MA's), (Start: 3 @61184 has 3 MA's), (Start: 4 @61175 has 37 MA's),

Gene: Yinz_81 Start: 61240, Stop: 61142, Start Num: 4

Candidate Starts for Yinz_81:

(1, 61348), (Start: 2 @61279 has 3 MA's), (Start: 3 @61249 has 3 MA's), (Start: 4 @61240 has 37 MA's),