



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 2099 Report

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

Pham number 2099 has 47 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Phayeta_97, Ben11_95, RagingRooster_95, Phaedrus_90, Marley1013_93, SlippinJimmy_98, Obutu_97, Yinz_93
- Track 2 : Gadjet_93, Halfpint_95, Jackstina_88, Compostia_94, Rita1961_96, OrangeOswald_94
- Track 3 : Morty007_93, Philly_94
- Track 4 : Chandler_95, Neos5_94, Nozo_95
- Track 5 : Tydolla_91, Deenasa_96, RomaT_95, Devonte_93, Akoma_96, Gervas_96, Heathcliff_95, Audrey_95, Bernardo_92, Mortcellus_95, SynergyX_96, Baloo_94, LestyG_93, Briakila_96, MmasiCarm_96, HarveySr_92
- Track 6 : Daisy_94, Corofin_95, Kamiyu_95, Abinghost_95, Casbah_95, Yahalom_93, GlenHope_96, Athena_97, ChaChing_95
- Track 7 : Phlyer_95
- Track 8 : Pipefish_94
- Track 9 : Kronus_95

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

The start number called the most often in the published annotations is 2, it was called in 29 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_95, Akoma_96, Athena_97, Audrey_95, Baloo_94, Bernardo_92, Briakila_96, Casbah_95, ChaChing_95, Chandler_95, Corofin_95, Daisy_94, Deenasa_96, Devonte_93, Gervas_96, GlenHope_96, HarveySr_92, Heathcliff_95, Kamiyu_95, Kronus_95, LestyG_93, MmasiCarm_96, Mortcellus_95, Neos5_94, Nozo_95, RomaT_95, SynergyX_96, Tydolla_91, Yahalom_93,

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

- Ben11_95, Compostia_94, Gadjet_93, Halfpint_95, Jackstina_88, Marley1013_93, Morty007_93, Obutu_97, OrangeOswald_94, Phaedrus_90, Phayeta_97, Philly_94, Phlyer_95, Pipefish_94, RagingRooster_95, Rita1961_96, SlippinJimmy_98, Yinz_93,

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

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Summary by start number:

Start 1:

- Found in 12 of 47 (25.5%) of genes in pham
- Manual Annotations of this start: 2 of 44
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Morty007_93 (B3), Philly_94 (B3),

Start 2:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 29 of 44
- Called 61.7% of time when present
- Phage (with cluster) where this start called: Abinghost_95 (B3), Akoma_96 (B3), Athena_97 (B3), Audrey_95 (B3), Baloo_94 (B3), Bernardo_92 (B3), Briakila_96 (B3), Casbah_95 (B3), ChaChing_95 (B3), Chandler_95 (B3), Corofin_95 (B3), Daisy_94 (B3), Deenasa_96 (B3), Devonte_93 (B3), Gervas_96 (B3), GlenHope_96 (B3), HarveySr_92 (B3), Heathcliff_95 (B3), Kamiyu_95 (B3), Kronus_95 (B3), LestyG_93 (B3), MmasiCarm_96 (B3), Mortcellus_95 (B3), Neos5_94 (B3), Nozo_95 (B3), RomaT_95 (B3), SynergyX_96 (B3), Tydolla_91 (B3), Yahalom_93 (B3),

Start 3:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 13 of 44
- Called 34.0% of time when present
- Phage (with cluster) where this start called: Ben11_95 (B3), Compostia_94 (B3), Gadget_93 (B3), Halfpint_95 (B3), Jackstina_88 (B3), Marley1013_93 (B3), Obutu_97 (B3), OrangeOswald_94 (B3), Phaedrus_90 (B3), Phayeta_97 (B3), Phlyer_95 (B3), Pipefish_94 (B3), RagingRooster_95 (B3), Rita1961_96 (B3), SlippinJimmy_98 (B3), Yinz_93 (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 2 times for cluster B3.
- Start number 2 was manually annotated 29 times for cluster B3.
- Start number 3 was manually annotated 13 times for cluster B3.

Gene Information:

Gene: Abinghost_95 Start: 65150, Stop: 64683, Start Num: 2

Candidate Starts for Abinghost_95:

(Start: 2 @65150 has 29 MA's), (Start: 3 @65105 has 13 MA's), (4, 65060), (5, 65057), (6, 65006), (7, 64979), (9, 64910),

Gene: Akoma_96 Start: 65227, Stop: 64760, Start Num: 2

Candidate Starts for Akoma_96:

(Start: 2 @65227 has 29 MA's), (Start: 3 @65182 has 13 MA's), (4, 65137), (5, 65134), (6, 65083), (9, 64987),

Gene: Athena_97 Start: 65923, Stop: 65456, Start Num: 2

Candidate Starts for Athena_97:

(Start: 2 @65923 has 29 MA's), (Start: 3 @65878 has 13 MA's), (4, 65833), (5, 65830), (6, 65779), (7, 65752), (9, 65683),

Gene: Audrey_95 Start: 65177, Stop: 64710, Start Num: 2

Candidate Starts for Audrey_95:

(Start: 2 @65177 has 29 MA's), (Start: 3 @65132 has 13 MA's), (4, 65087), (5, 65084), (6, 65033), (9, 64937),

Gene: Baloo_94 Start: 65030, Stop: 64563, Start Num: 2

Candidate Starts for Baloo_94:

(Start: 2 @65030 has 29 MA's), (Start: 3 @64985 has 13 MA's), (4, 64940), (5, 64937), (6, 64886), (9, 64790),

Gene: Ben11_95 Start: 65362, Stop: 64940, Start Num: 3

Candidate Starts for Ben11_95:

(Start: 2 @65407 has 29 MA's), (Start: 3 @65362 has 13 MA's), (4, 65317), (5, 65314), (6, 65263), (9, 65167),

Gene: Bernardo_92 Start: 64701, Stop: 64234, Start Num: 2

Candidate Starts for Bernardo_92:

(Start: 2 @64701 has 29 MA's), (Start: 3 @64656 has 13 MA's), (4, 64611), (5, 64608), (6, 64557), (9, 64461),

Gene: Briakila_96 Start: 65681, Stop: 65214, Start Num: 2

Candidate Starts for Briakila_96:

(Start: 2 @65681 has 29 MA's), (Start: 3 @65636 has 13 MA's), (4, 65591), (5, 65588), (6, 65537), (9, 65441),

Gene: Casbah_95 Start: 65492, Stop: 65025, Start Num: 2

Candidate Starts for Casbah_95:

(Start: 2 @65492 has 29 MA's), (Start: 3 @65447 has 13 MA's), (4, 65402), (5, 65399), (6, 65348), (7, 65321), (9, 65252),

Gene: ChaChing_95 Start: 65190, Stop: 64723, Start Num: 2

Candidate Starts for ChaChing_95:

(Start: 2 @65190 has 29 MA's), (Start: 3 @65145 has 13 MA's), (4, 65100), (5, 65097), (6, 65046), (7, 65019), (9, 64950),

Gene: Chandler_95 Start: 65966, Stop: 65499, Start Num: 2

Candidate Starts for Chandler_95:

(Start: 1 @66005 has 2 MA's), (Start: 2 @65966 has 29 MA's), (Start: 3 @65921 has 13 MA's), (4, 65876), (5, 65873), (6, 65822), (9, 65726),

Gene: Compostia_94 Start: 65599, Stop: 65177, Start Num: 3

Candidate Starts for Compostia_94:

(Start: 1 @65683 has 2 MA's), (Start: 2 @65644 has 29 MA's), (Start: 3 @65599 has 13 MA's), (4, 65554), (5, 65551), (6, 65500), (9, 65404),

Gene: Corofin_95 Start: 65201, Stop: 64734, Start Num: 2

Candidate Starts for Corofin_95:

(Start: 2 @65201 has 29 MA's), (Start: 3 @65156 has 13 MA's), (4, 65111), (5, 65108), (6, 65057), (7, 65030), (9, 64961),

Gene: Daisy_94 Start: 64750, Stop: 64283, Start Num: 2

Candidate Starts for Daisy_94:

(Start: 2 @64750 has 29 MA's), (Start: 3 @64705 has 13 MA's), (4, 64660), (5, 64657), (6, 64606), (7, 64579), (9, 64510),

Gene: Deenasa_96 Start: 66404, Stop: 65937, Start Num: 2

Candidate Starts for Deenasa_96:

(Start: 2 @66404 has 29 MA's), (Start: 3 @66359 has 13 MA's), (4, 66314), (5, 66311), (6, 66260), (9, 66164),

Gene: Devonte_93 Start: 64816, Stop: 64349, Start Num: 2

Candidate Starts for Devonte_93:

(Start: 2 @64816 has 29 MA's), (Start: 3 @64771 has 13 MA's), (4, 64726), (5, 64723), (6, 64672), (9, 64576),

Gene: Gadjet_93 Start: 64803, Stop: 64381, Start Num: 3

Candidate Starts for Gadjet_93:

(Start: 1 @64887 has 2 MA's), (Start: 2 @64848 has 29 MA's), (Start: 3 @64803 has 13 MA's), (4, 64758), (5, 64755), (6, 64704), (9, 64608),

Gene: Gervas_96 Start: 65645, Stop: 65178, Start Num: 2

Candidate Starts for Gervas_96:

(Start: 2 @65645 has 29 MA's), (Start: 3 @65600 has 13 MA's), (4, 65555), (5, 65552), (6, 65501), (9, 65405),

Gene: GlenHope_96 Start: 65220, Stop: 64753, Start Num: 2

Candidate Starts for GlenHope_96:

(Start: 2 @65220 has 29 MA's), (Start: 3 @65175 has 13 MA's), (4, 65130), (5, 65127), (6, 65076), (7, 65049), (9, 64980),

Gene: Halfpint_95 Start: 64920, Stop: 64498, Start Num: 3

Candidate Starts for Halfpint_95:

(Start: 1 @65004 has 2 MA's), (Start: 2 @64965 has 29 MA's), (Start: 3 @64920 has 13 MA's), (4, 64875), (5, 64872), (6, 64821), (9, 64725),

Gene: HarveySr_92 Start: 64289, Stop: 63822, Start Num: 2

Candidate Starts for HarveySr_92:

(Start: 2 @64289 has 29 MA's), (Start: 3 @64244 has 13 MA's), (4, 64199), (5, 64196), (6, 64145), (9, 64049),

Gene: Heathcliff_95 Start: 65144, Stop: 64677, Start Num: 2

Candidate Starts for Heathcliff_95:

(Start: 2 @65144 has 29 MA's), (Start: 3 @65099 has 13 MA's), (4, 65054), (5, 65051), (6, 65000), (9, 64904),

Gene: Jackstina_88 Start: 65016, Stop: 64594, Start Num: 3

Candidate Starts for Jackstina_88:

(Start: 1 @65100 has 2 MA's), (Start: 2 @65061 has 29 MA's), (Start: 3 @65016 has 13 MA's), (4, 64971), (5, 64968), (6, 64917), (9, 64821),

Gene: Kamiyu_95 Start: 65148, Stop: 64681, Start Num: 2

Candidate Starts for Kamiyu_95:

(Start: 2 @65148 has 29 MA's), (Start: 3 @65103 has 13 MA's), (4, 65058), (5, 65055), (6, 65004), (7, 64977), (9, 64908),

Gene: Kronus_95 Start: 66232, Stop: 65765, Start Num: 2

Candidate Starts for Kronus_95:

(Start: 1 @66271 has 2 MA's), (Start: 2 @66232 has 29 MA's), (Start: 3 @66187 has 13 MA's), (4, 66142), (5, 66139), (6, 66088), (9, 65992),

Gene: LestyG_93 Start: 64719, Stop: 64252, Start Num: 2

Candidate Starts for LestyG_93:

(Start: 2 @64719 has 29 MA's), (Start: 3 @64674 has 13 MA's), (4, 64629), (5, 64626), (6, 64575), (9, 64479),

Gene: Marley1013_93 Start: 65634, Stop: 65212, Start Num: 3

Candidate Starts for Marley1013_93:

(Start: 2 @65679 has 29 MA's), (Start: 3 @65634 has 13 MA's), (4, 65589), (5, 65586), (6, 65535), (9, 65439),

Gene: MmasiCarm_96 Start: 65576, Stop: 65109, Start Num: 2

Candidate Starts for MmasiCarm_96:

(Start: 2 @65576 has 29 MA's), (Start: 3 @65531 has 13 MA's), (4, 65486), (5, 65483), (6, 65432), (9, 65336),

Gene: Mortcellus_95 Start: 66314, Stop: 65847, Start Num: 2

Candidate Starts for Mortcellus_95:

(Start: 2 @66314 has 29 MA's), (Start: 3 @66269 has 13 MA's), (4, 66224), (5, 66221), (6, 66170), (9, 66074),

Gene: Morty007_93 Start: 65985, Stop: 65479, Start Num: 1

Candidate Starts for Morty007_93:

(Start: 1 @65985 has 2 MA's), (Start: 2 @65946 has 29 MA's), (Start: 3 @65901 has 13 MA's), (4, 65856), (5, 65853), (6, 65802), (9, 65706),

Gene: Neos5_94 Start: 65402, Stop: 64935, Start Num: 2

Candidate Starts for Neos5_94:

(Start: 1 @65441 has 2 MA's), (Start: 2 @65402 has 29 MA's), (Start: 3 @65357 has 13 MA's), (4, 65312), (5, 65309), (6, 65258), (9, 65162),

Gene: Nozo_95 Start: 65955, Stop: 65488, Start Num: 2

Candidate Starts for Nozo_95:

(Start: 1 @65994 has 2 MA's), (Start: 2 @65955 has 29 MA's), (Start: 3 @65910 has 13 MA's), (4, 65865), (5, 65862), (6, 65811), (9, 65715),

Gene: Obutu_97 Start: 65714, Stop: 65292, Start Num: 3

Candidate Starts for Obutu_97:

(Start: 2 @65759 has 29 MA's), (Start: 3 @65714 has 13 MA's), (4, 65669), (5, 65666), (6, 65615), (9, 65519),

Gene: OrangeOswald_94 Start: 65145, Stop: 64723, Start Num: 3

Candidate Starts for OrangeOswald_94:

(Start: 1 @65229 has 2 MA's), (Start: 2 @65190 has 29 MA's), (Start: 3 @65145 has 13 MA's), (4, 65100), (5, 65097), (6, 65046), (9, 64950),

Gene: Phaedruss_90 Start: 64560, Stop: 64138, Start Num: 3

Candidate Starts for Phaedruss_90:

(Start: 2 @64605 has 29 MA's), (Start: 3 @64560 has 13 MA's), (4, 64515), (5, 64512), (6, 64461), (9, 64365),

Gene: Phayeta_97 Start: 65395, Stop: 64973, Start Num: 3

Candidate Starts for Phayeta_97:

(Start: 2 @65440 has 29 MA's), (Start: 3 @65395 has 13 MA's), (4, 65350), (5, 65347), (6, 65296), (9, 65200),

Gene: Philly_94 Start: 65077, Stop: 64571, Start Num: 1

Candidate Starts for Philly_94:

(Start: 1 @65077 has 2 MA's), (Start: 2 @65038 has 29 MA's), (Start: 3 @64993 has 13 MA's), (4, 64948), (5, 64945), (6, 64894), (9, 64798),

Gene: Phlyer_95 Start: 65855, Stop: 65433, Start Num: 3

Candidate Starts for Phlyer_95:

(Start: 2 @65900 has 29 MA's), (Start: 3 @65855 has 13 MA's), (4, 65810), (5, 65807), (6, 65756), (7, 65729), (9, 65660),

Gene: Pipefish_94 Start: 65529, Stop: 65125, Start Num: 3

Candidate Starts for Pipefish_94:

(Start: 2 @65574 has 29 MA's), (Start: 3 @65529 has 13 MA's), (4, 65484), (5, 65481), (6, 65430), (7, 65403), (8, 65370), (10, 65277), (11, 65172),

Gene: RagingRooster_95 Start: 65141, Stop: 64719, Start Num: 3

Candidate Starts for RagingRooster_95:

(Start: 2 @65186 has 29 MA's), (Start: 3 @65141 has 13 MA's), (4, 65096), (5, 65093), (6, 65042), (9, 64946),

Gene: Rita1961_96 Start: 65486, Stop: 65064, Start Num: 3

Candidate Starts for Rita1961_96:

(Start: 1 @65570 has 2 MA's), (Start: 2 @65531 has 29 MA's), (Start: 3 @65486 has 13 MA's), (4, 65441), (5, 65438), (6, 65387), (9, 65291),

Gene: RomaT_95 Start: 65754, Stop: 65287, Start Num: 2

Candidate Starts for RomaT_95:

(Start: 2 @65754 has 29 MA's), (Start: 3 @65709 has 13 MA's), (4, 65664), (5, 65661), (6, 65610), (9, 65514),

Gene: SlippinJimmy_98 Start: 66509, Stop: 66087, Start Num: 3

Candidate Starts for SlippinJimmy_98:

(Start: 2 @66554 has 29 MA's), (Start: 3 @66509 has 13 MA's), (4, 66464), (5, 66461), (6, 66410), (9, 66314),

Gene: SynergyX_96 Start: 65496, Stop: 65029, Start Num: 2

Candidate Starts for SynergyX_96:

(Start: 2 @65496 has 29 MA's), (Start: 3 @65451 has 13 MA's), (4, 65406), (5, 65403), (6, 65352), (9, 65256),

Gene: Tydolla_91 Start: 65172, Stop: 64705, Start Num: 2

Candidate Starts for Tydolla_91:

(Start: 2 @65172 has 29 MA's), (Start: 3 @65127 has 13 MA's), (4, 65082), (5, 65079), (6, 65028), (9, 64932),

Gene: Yahalom_93 Start: 64997, Stop: 64530, Start Num: 2

Candidate Starts for Yahalom_93:

(Start: 2 @64997 has 29 MA's), (Start: 3 @64952 has 13 MA's), (4, 64907), (5, 64904), (6, 64853), (7, 64826), (9, 64757),

Gene: Yinz_93 Start: 64549, Stop: 64127, Start Num: 3

Candidate Starts for Yinz_93:

(Start: 2 @64594 has 29 MA's), (Start: 3 @64549 has 13 MA's), (4, 64504), (5, 64501), (6, 64450), (9, 64354),