



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 308721 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308721 has 53 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Nozo_63, Obutu_64, MmasiCarm_64, Neos5_62, Heathcliff_63, Jackstina_59, Bernardo_64, Chandler_63, Akoma_63, GlenHope_64, SynergyX_63, RagingRooster_62, Shenandoah_62, Mortcellus_63, ChaChing_63, Ben11_63, Athena_65, Marley1013_63, Tydolla_60, OrangeOswald_63, Corofin_63, LestyG_61, Baloo_62, Devonte_62, Daisy_62, Gervas_64, Deenasa_63, RomaT_63, HarveySr_62, Abinghost_63, Philly_62, Olivio_63, TinyTerror_64, Chentzyk_64, Rita1961_64, Audrey_63, Kamiyu_63, Mulaychimus_64, Kronus_63, Glubnar_64, Chalmers_62, Yahalom_61, Phlyer_63, SlippinJimmy_65
- Track 2 : Marlia_64, Pipefish_64, Yinz_63, Briakila_62, SwainyDoc_64, Gadjet_64, Casbah_63
- Track 3 : Phayeta_65, Halfpint_62

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

The start number called the most often in the published annotations is 5, it was called in 40 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_63, Akoma_63, Athena_65, Audrey_63, Baloo_62, Ben11_63, Bernardo_64, ChaChing_63, Chalmers_62, Chandler_63, Chentzyk_64, Corofin_63, Daisy_62, Deenasa_63, Devonte_62, Gervas_64, GlenHope_64, Glubnar_64, HarveySr_62, Heathcliff_63, Jackstina_59, Kamiyu_63, Kronus_63, LestyG_61, Marley1013_63, MmasiCarm_64, Mortcellus_63, Mulaychimus_64, Neos5_62, Nozo_63, Obutu_64, Olivio_63, OrangeOswald_63, Philly_62, Phlyer_63, RagingRooster_62, Rita1961_64, RomaT_63, Shenandoah_62, SlippinJimmy_65, SynergyX_63, TinyTerror_64, Tydolla_60, Yahalom_61,

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:

- Briakila_62, Casbah_63, Gadjet_64, Halfpint_62, Marlia_64, Phayeta_65, Pipefish_64, SwainyDoc_64, Yinz_63,

Summary by start number:

Start 4:

- Found in 9 of 53 (17.0%) of genes in pham
- Manual Annotations of this start: 8 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Briakila_62 (B3), Casbah_63 (B3), Gadget_64 (B3), Halfpint_62 (B3), Marlia_64 (B3), Phayeta_65 (B3), Pipefish_64 (B3), SwainyDoc_64 (B3), Yinz_63 (B3),

Start 5:

- Found in 44 of 53 (83.0%) of genes in pham
- Manual Annotations of this start: 40 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_63 (B3), Akoma_63 (B3), Athena_65 (B3), Audrey_63 (B3), Baloo_62 (B3), Ben11_63 (B3), Bernardo_64 (B3), ChaChing_63 (B3), Chalmers_62 (B3), Chandler_63 (B3), Chentzyk_64 (B3), Corofin_63 (B3), Daisy_62 (B3), Deenasa_63 (B3), Devonte_62 (B3), Gervas_64 (B3), GlenHope_64 (B3), Glubnar_64 (B3), HarveySr_62 (B3), Heathcliff_63 (B3), Jackstina_59 (B3), Kamiyu_63 (B3), Kronus_63 (B3), LestyG_61 (B3), Marley1013_63 (B3), MmasiCarm_64 (B3), Mortcellus_63 (B3), Mulaychimus_64 (B3), Neos5_62 (B3), Nozo_63 (B3), Obutu_64 (B3), Olivio_63 (B3), OrangeOswald_63 (B3), Philly_62 (B3), Phlyer_63 (B3), RagingRooster_62 (B3), Rita1961_64 (B3), RomaT_63 (B3), Shenandoah_62 (B3), SlippinJimmy_65 (B3), SynergyX_63 (B3), TinyTerror_64 (B3), Tydolla_60 (B3), Yahalom_61 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 4 was manually annotated 8 times for cluster B3.
- Start number 5 was manually annotated 40 times for cluster B3.

Gene Information:

Gene: Abinghost_63 Start: 55081, Stop: 54962, Start Num: 5

Candidate Starts for Abinghost_63:

(Start: 5 @55081 has 40 MA's), (7, 55039),

Gene: Akoma_63 Start: 55129, Stop: 55010, Start Num: 5

Candidate Starts for Akoma_63:

(Start: 5 @55129 has 40 MA's), (7, 55087),

Gene: Athena_65 Start: 55864, Stop: 55745, Start Num: 5

Candidate Starts for Athena_65:

(Start: 5 @55864 has 40 MA's), (7, 55822),

Gene: Audrey_63 Start: 55120, Stop: 55001, Start Num: 5

Candidate Starts for Audrey_63:

(Start: 5 @55120 has 40 MA's), (7, 55078),

Gene: Baloo_62 Start: 54953, Stop: 54834, Start Num: 5
Candidate Starts for Baloo_62:
(Start: 5 @54953 has 40 MA's), (7, 54911),

Gene: Ben11_63 Start: 55338, Stop: 55216, Start Num: 5
Candidate Starts for Ben11_63:
(Start: 5 @55338 has 40 MA's), (7, 55296),

Gene: Bernardo_64 Start: 55475, Stop: 55356, Start Num: 5
Candidate Starts for Bernardo_64:
(Start: 5 @55475 has 40 MA's), (7, 55433),

Gene: Briakila_62 Start: 55111, Stop: 54974, Start Num: 4
Candidate Starts for Briakila_62:
(Start: 4 @55111 has 8 MA's), (6, 55090), (7, 55051),

Gene: Casbah_63 Start: 55456, Stop: 55319, Start Num: 4
Candidate Starts for Casbah_63:
(Start: 4 @55456 has 8 MA's), (6, 55435), (7, 55396),

Gene: ChaChing_63 Start: 55140, Stop: 55021, Start Num: 5
Candidate Starts for ChaChing_63:
(Start: 5 @55140 has 40 MA's), (7, 55098),

Gene: Chalmers_62 Start: 55579, Stop: 55460, Start Num: 5
Candidate Starts for Chalmers_62:
(Start: 5 @55579 has 40 MA's), (7, 55537),

Gene: Chandler_63 Start: 55908, Stop: 55789, Start Num: 5
Candidate Starts for Chandler_63:
(Start: 5 @55908 has 40 MA's), (7, 55866),

Gene: Chentzyk_64 Start: 55845, Stop: 55726, Start Num: 5
Candidate Starts for Chentzyk_64:
(Start: 5 @55845 has 40 MA's), (7, 55803),

Gene: Corofin_63 Start: 55151, Stop: 55032, Start Num: 5
Candidate Starts for Corofin_63:
(Start: 5 @55151 has 40 MA's), (7, 55109),

Gene: Daisy_62 Start: 54684, Stop: 54565, Start Num: 5
Candidate Starts for Daisy_62:
(Start: 5 @54684 has 40 MA's), (7, 54642),

Gene: Deenasa_63 Start: 55989, Stop: 55870, Start Num: 5
Candidate Starts for Deenasa_63:
(Start: 5 @55989 has 40 MA's), (7, 55947),

Gene: Devonte_62 Start: 54763, Stop: 54644, Start Num: 5
Candidate Starts for Devonte_62:
(Start: 5 @54763 has 40 MA's), (7, 54721),

Gene: Gadget_64 Start: 55477, Stop: 55340, Start Num: 4
Candidate Starts for Gadget_64:
(Start: 4 @55477 has 8 MA's), (6, 55456), (7, 55417),

Gene: Gervas_64 Start: 55545, Stop: 55426, Start Num: 5
Candidate Starts for Gervas_64:
(Start: 5 @55545 has 40 MA's), (7, 55503),

Gene: GlenHope_64 Start: 55119, Stop: 55000, Start Num: 5
Candidate Starts for GlenHope_64:
(Start: 5 @55119 has 40 MA's), (7, 55077),

Gene: Glubnar_64 Start: 55025, Stop: 54906, Start Num: 5
Candidate Starts for Glubnar_64:
(Start: 5 @55025 has 40 MA's), (7, 54983),

Gene: Halfpint_62 Start: 54880, Stop: 54743, Start Num: 4
Candidate Starts for Halfpint_62:
(1, 55138), (2, 55012), (3, 54994), (Start: 4 @54880 has 8 MA's), (6, 54859), (7, 54820),

Gene: HarveySr_62 Start: 54709, Stop: 54590, Start Num: 5
Candidate Starts for HarveySr_62:
(Start: 5 @54709 has 40 MA's), (7, 54667),

Gene: Heathcliff_63 Start: 55086, Stop: 54967, Start Num: 5
Candidate Starts for Heathcliff_63:
(Start: 5 @55086 has 40 MA's), (7, 55044),

Gene: Jackstina_59 Start: 55011, Stop: 54892, Start Num: 5
Candidate Starts for Jackstina_59:
(Start: 5 @55011 has 40 MA's), (7, 54969),

Gene: Kamiyu_63 Start: 55088, Stop: 54969, Start Num: 5
Candidate Starts for Kamiyu_63:
(Start: 5 @55088 has 40 MA's), (7, 55046),

Gene: Kronus_63 Start: 56176, Stop: 56054, Start Num: 5
Candidate Starts for Kronus_63:
(Start: 5 @56176 has 40 MA's), (7, 56134),

Gene: LestyG_61 Start: 54606, Stop: 54487, Start Num: 5
Candidate Starts for LestyG_61:
(Start: 5 @54606 has 40 MA's), (7, 54564),

Gene: Marley1013_63 Start: 55804, Stop: 55685, Start Num: 5
Candidate Starts for Marley1013_63:
(Start: 5 @55804 has 40 MA's), (7, 55762),

Gene: Marlia_64 Start: 55567, Stop: 55430, Start Num: 4
Candidate Starts for Marlia_64:
(Start: 4 @55567 has 8 MA's), (6, 55546), (7, 55507),

Gene: MmasiCarm_64 Start: 55533, Stop: 55414, Start Num: 5

Candidate Starts for MmasiCarm_64:
(Start: 5 @55533 has 40 MA's), (7, 55491),

Gene: Mortcellus_63 Start: 56191, Stop: 56072, Start Num: 5
Candidate Starts for Mortcellus_63:
(Start: 5 @56191 has 40 MA's), (7, 56149),

Gene: Mulaychimus_64 Start: 55550, Stop: 55431, Start Num: 5
Candidate Starts for Mulaychimus_64:
(Start: 5 @55550 has 40 MA's), (7, 55508),

Gene: Neos5_62 Start: 55266, Stop: 55147, Start Num: 5
Candidate Starts for Neos5_62:
(Start: 5 @55266 has 40 MA's), (7, 55224),

Gene: Nozo_63 Start: 55887, Stop: 55768, Start Num: 5
Candidate Starts for Nozo_63:
(Start: 5 @55887 has 40 MA's), (7, 55845),

Gene: Obutu_64 Start: 55486, Stop: 55367, Start Num: 5
Candidate Starts for Obutu_64:
(Start: 5 @55486 has 40 MA's), (7, 55444),

Gene: Olivio_63 Start: 55345, Stop: 55226, Start Num: 5
Candidate Starts for Olivio_63:
(Start: 5 @55345 has 40 MA's), (7, 55303),

Gene: OrangeOswald_63 Start: 55128, Stop: 55009, Start Num: 5
Candidate Starts for OrangeOswald_63:
(Start: 5 @55128 has 40 MA's), (7, 55086),

Gene: Phayeta_65 Start: 55406, Stop: 55269, Start Num: 4
Candidate Starts for Phayeta_65:
(1, 55664), (2, 55538), (3, 55520), (Start: 4 @55406 has 8 MA's), (6, 55385), (7, 55346),

Gene: Philly_62 Start: 54948, Stop: 54829, Start Num: 5
Candidate Starts for Philly_62:
(Start: 5 @54948 has 40 MA's), (7, 54906),

Gene: Phlyer_63 Start: 55842, Stop: 55723, Start Num: 5
Candidate Starts for Phlyer_63:
(Start: 5 @55842 has 40 MA's), (7, 55800),

Gene: Pipefish_64 Start: 55898, Stop: 55746, Start Num: 4
Candidate Starts for Pipefish_64:
(Start: 4 @55898 has 8 MA's), (6, 55877), (7, 55838),

Gene: RagingRooster_62 Start: 54776, Stop: 54657, Start Num: 5
Candidate Starts for RagingRooster_62:
(Start: 5 @54776 has 40 MA's), (7, 54734),

Gene: Rita1961_64 Start: 55486, Stop: 55367, Start Num: 5
Candidate Starts for Rita1961_64:

(Start: 5 @55486 has 40 MA's), (7, 55444),

Gene: RomaT_63 Start: 55685, Stop: 55566, Start Num: 5

Candidate Starts for RomaT_63:

(Start: 5 @55685 has 40 MA's), (7, 55643),

Gene: Shenandoah_62 Start: 54753, Stop: 54634, Start Num: 5

Candidate Starts for Shenandoah_62:

(Start: 5 @54753 has 40 MA's), (7, 54711),

Gene: SlippinJimmy_65 Start: 56286, Stop: 56167, Start Num: 5

Candidate Starts for SlippinJimmy_65:

(Start: 5 @56286 has 40 MA's), (7, 56244),

Gene: SwainyDoc_64 Start: 55533, Stop: 55396, Start Num: 4

Candidate Starts for SwainyDoc_64:

(Start: 4 @55533 has 8 MA's), (6, 55512), (7, 55473),

Gene: SynergyX_63 Start: 55125, Stop: 55006, Start Num: 5

Candidate Starts for SynergyX_63:

(Start: 5 @55125 has 40 MA's), (7, 55083),

Gene: TinyTerror_64 Start: 55549, Stop: 55427, Start Num: 5

Candidate Starts for TinyTerror_64:

(Start: 5 @55549 has 40 MA's), (7, 55507),

Gene: Tydolla_60 Start: 55158, Stop: 55039, Start Num: 5

Candidate Starts for Tydolla_60:

(Start: 5 @55158 has 40 MA's), (7, 55116),

Gene: Yahalom_61 Start: 54932, Stop: 54813, Start Num: 5

Candidate Starts for Yahalom_61:

(Start: 5 @54932 has 40 MA's), (7, 54890),

Gene: Yinz_63 Start: 55011, Stop: 54874, Start Num: 4

Candidate Starts for Yinz_63:

(Start: 4 @55011 has 8 MA's), (6, 54990), (7, 54951),