



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 311659 Report

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

Pham number 311659 has 54 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Mulaychimus_43, Halfpint_42, Phlyer_43, Olivio_42, Gervas_43, Nozo_43, Neos5_43, MmasiCarm_43, Yahalom_43, Heathcliff_43, Obutu_43, GlenHope_44, Phayeta_44, Shenandoah_43, Yinz_43, Chandler_43, SynergyX_43, Phaedrus_41, Tydolla_43, Compostia_44, Briakila_44, ChaChing_43, OrangeOswald_43, SlippinJimmy_43, Glubnar_44, Baloo_43, Corofin_43, Athena_44, Akoma_43, Deenasa_43, Jackstina_40, Ben11_42, Abinghost_43, LestyG_43, Gadget_44, Chalmers_43, Devonte_43, Philly_42, HarveySr_43, Chentzyk_43, RomaT_43, TinyTerror_43, Audrey_43, Daisy_43, Morty007_43, Casbah_42, RagingRooster_43, Rita1961_43, Kamiyu_43, Marlia_43, SwainyDoc_43, Kronus_42, Marley1013_43
- Track 2 : TPA2_48

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 48 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_43, Akoma_43, Athena_44, Audrey_43, Baloo_43, Ben11_42, Briakila_44, Casbah_42, ChaChing_43, Chalmers_43, Chandler_43, Chentzyk_43, Compostia_44, Corofin_43, Daisy_43, Deenasa_43, Devonte_43, Gadget_44, Gervas_43, GlenHope_44, Glubnar_44, Halfpint_42, HarveySr_43, Heathcliff_43, Jackstina_40, Kamiyu_43, Kronus_42, LestyG_43, Marley1013_43, Marlia_43, MmasiCarm_43, Morty007_43, Mulaychimus_43, Neos5_43, Nozo_43, Obutu_43, Olivio_42, OrangeOswald_43, Phaedrus_41, Phayeta_44, Philly_42, Phlyer_43, RagingRooster_43, Rita1961_43, RomaT_43, Shenandoah_43, SlippinJimmy_43, SwainyDoc_43, SynergyX_43, TinyTerror_43, Tydolla_43, Yahalom_43, Yinz_43,

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

- TPA2_48,

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

-

Summary by start number:

Start 2:

- Found in 1 of 54 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA2_48 (singleton),

Start 3:

- Found in 54 of 54 (100.0%) of genes in pham
- Manual Annotations of this start: 48 of 48
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Abinghost_43 (B3), Akoma_43 (B3), Athena_44 (B3), Audrey_43 (B3), Baloo_43 (B3), Ben11_42 (B3), Briakila_44 (B3), Casbah_42 (B3), ChaChing_43 (B3), Chalmers_43 (B3), Chandler_43 (B3), Chentzyk_43 (B3), Compostia_44 (B3), Corofin_43 (B3), Daisy_43 (B3), Deenasa_43 (B3), Devonte_43 (B3), Gadget_44 (B3), Gervas_43 (B3), GlenHope_44 (B3), Glubnar_44 (B3), Halfpint_42 (B3), HarveySr_43 (B3), Heathcliff_43 (B3), Jackstina_40 (B3), Kamiyu_43 (B3), Kronus_42 (B3), LestyG_43 (B3), Marley1013_43 (B3), Marlia_43 (B3), MmasiCarm_43 (B3), Morty007_43 (B3), Mulaychimus_43 (B3), Neos5_43 (B3), Nozo_43 (B3), Obutu_43 (B3), Olivio_42 (B3), OrangeOswald_43 (B3), Phaedrus_41 (B3), Phayeta_44 (B3), Philly_42 (B3), Phlyer_43 (B3), RagingRooster_43 (B3), Rita1961_43 (B3), RomaT_43 (B3), Shenandoah_43 (B3), SlippinJimmy_43 (B3), SwainyDoc_43 (B3), SynergyX_43 (B3), TinyTerror_43 (B3), Tydolla_43 (B3), Yahalom_43 (B3), Yinz_43 (B3),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, B3,

Info for manual annotations of cluster B3:

- Start number 3 was manually annotated 48 times for cluster B3.

Gene Information:

Gene: Abinghost_43 Start: 39027, Stop: 38791, Start Num: 3

Candidate Starts for Abinghost_43:

(Start: 3 @39027 has 48 MA's), (5, 38970), (8, 38904), (9, 38898),

Gene: Akoma_43 Start: 39031, Stop: 38795, Start Num: 3

Candidate Starts for Akoma_43:

(Start: 3 @39031 has 48 MA's), (5, 38974), (8, 38908), (9, 38902),

Gene: Athena_44 Start: 39778, Stop: 39542, Start Num: 3

Candidate Starts for Athena_44:

(Start: 3 @39778 has 48 MA's), (5, 39721), (8, 39655), (9, 39649),

Gene: Audrey_43 Start: 39027, Stop: 38791, Start Num: 3

Candidate Starts for Audrey_43:

(Start: 3 @39027 has 48 MA's), (5, 38970), (8, 38904), (9, 38898),

Gene: Baloo_43 Start: 39030, Stop: 38794, Start Num: 3

Candidate Starts for Baloo_43:
(Start: 3 @39030 has 48 MA's), (5, 38973), (8, 38907), (9, 38901),

Gene: Ben11_42 Start: 38849, Stop: 38613, Start Num: 3
Candidate Starts for Ben11_42:
(Start: 3 @38849 has 48 MA's), (5, 38792), (8, 38726), (9, 38720),

Gene: Briakila_44 Start: 39797, Stop: 39561, Start Num: 3
Candidate Starts for Briakila_44:
(Start: 3 @39797 has 48 MA's), (5, 39740), (8, 39674), (9, 39668),

Gene: Casbah_42 Start: 38879, Stop: 38643, Start Num: 3
Candidate Starts for Casbah_42:
(Start: 3 @38879 has 48 MA's), (5, 38822), (8, 38756), (9, 38750),

Gene: ChaChing_43 Start: 39042, Stop: 38806, Start Num: 3
Candidate Starts for ChaChing_43:
(Start: 3 @39042 has 48 MA's), (5, 38985), (8, 38919), (9, 38913),

Gene: Chalmers_43 Start: 39834, Stop: 39598, Start Num: 3
Candidate Starts for Chalmers_43:
(Start: 3 @39834 has 48 MA's), (5, 39777), (8, 39711), (9, 39705),

Gene: Chandler_43 Start: 39810, Stop: 39574, Start Num: 3
Candidate Starts for Chandler_43:
(Start: 3 @39810 has 48 MA's), (5, 39753), (8, 39687), (9, 39681),

Gene: Chentzyk_43 Start: 39391, Stop: 39155, Start Num: 3
Candidate Starts for Chentzyk_43:
(Start: 3 @39391 has 48 MA's), (5, 39334), (8, 39268), (9, 39262),

Gene: Compostia_44 Start: 39458, Stop: 39222, Start Num: 3
Candidate Starts for Compostia_44:
(Start: 3 @39458 has 48 MA's), (5, 39401), (8, 39335), (9, 39329),

Gene: Corofin_43 Start: 39053, Stop: 38817, Start Num: 3
Candidate Starts for Corofin_43:
(Start: 3 @39053 has 48 MA's), (5, 38996), (8, 38930), (9, 38924),

Gene: Daisy_43 Start: 39054, Stop: 38818, Start Num: 3
Candidate Starts for Daisy_43:
(Start: 3 @39054 has 48 MA's), (5, 38997), (8, 38931), (9, 38925),

Gene: Deenasa_43 Start: 39789, Stop: 39553, Start Num: 3
Candidate Starts for Deenasa_43:
(Start: 3 @39789 has 48 MA's), (5, 39732), (8, 39666), (9, 39660),

Gene: Devonte_43 Start: 39018, Stop: 38782, Start Num: 3
Candidate Starts for Devonte_43:
(Start: 3 @39018 has 48 MA's), (5, 38961), (8, 38895), (9, 38889),

Gene: Gadjet_44 Start: 39041, Stop: 38805, Start Num: 3
Candidate Starts for Gadjet_44:

(Start: 3 @39041 has 48 MA's), (5, 38984), (8, 38918), (9, 38912),

Gene: Gervas_43 Start: 39008, Stop: 38772, Start Num: 3

Candidate Starts for Gervas_43:

(Start: 3 @39008 has 48 MA's), (5, 38951), (8, 38885), (9, 38879),

Gene: GlenHope_44 Start: 39021, Stop: 38785, Start Num: 3

Candidate Starts for GlenHope_44:

(Start: 3 @39021 has 48 MA's), (5, 38964), (8, 38898), (9, 38892),

Gene: Glubnar_44 Start: 39020, Stop: 38784, Start Num: 3

Candidate Starts for Glubnar_44:

(Start: 3 @39020 has 48 MA's), (5, 38963), (8, 38897), (9, 38891),

Gene: Halfpint_42 Start: 38847, Stop: 38611, Start Num: 3

Candidate Starts for Halfpint_42:

(Start: 3 @38847 has 48 MA's), (5, 38790), (8, 38724), (9, 38718),

Gene: HarveySr_43 Start: 39014, Stop: 38778, Start Num: 3

Candidate Starts for HarveySr_43:

(Start: 3 @39014 has 48 MA's), (5, 38957), (8, 38891), (9, 38885),

Gene: Heathcliff_43 Start: 38992, Stop: 38756, Start Num: 3

Candidate Starts for Heathcliff_43:

(Start: 3 @38992 has 48 MA's), (5, 38935), (8, 38869), (9, 38863),

Gene: Jackstina_40 Start: 38951, Stop: 38715, Start Num: 3

Candidate Starts for Jackstina_40:

(Start: 3 @38951 has 48 MA's), (5, 38894), (8, 38828), (9, 38822),

Gene: Kamiyu_43 Start: 39000, Stop: 38764, Start Num: 3

Candidate Starts for Kamiyu_43:

(Start: 3 @39000 has 48 MA's), (5, 38943), (8, 38877), (9, 38871),

Gene: Kronus_42 Start: 39610, Stop: 39374, Start Num: 3

Candidate Starts for Kronus_42:

(Start: 3 @39610 has 48 MA's), (5, 39553), (8, 39487), (9, 39481),

Gene: LestyG_43 Start: 39031, Stop: 38795, Start Num: 3

Candidate Starts for LestyG_43:

(Start: 3 @39031 has 48 MA's), (5, 38974), (8, 38908), (9, 38902),

Gene: Marley1013_43 Start: 39809, Stop: 39573, Start Num: 3

Candidate Starts for Marley1013_43:

(Start: 3 @39809 has 48 MA's), (5, 39752), (8, 39686), (9, 39680),

Gene: Marlia_43 Start: 39012, Stop: 38776, Start Num: 3

Candidate Starts for Marlia_43:

(Start: 3 @39012 has 48 MA's), (5, 38955), (8, 38889), (9, 38883),

Gene: MmasiCarm_43 Start: 39013, Stop: 38777, Start Num: 3

Candidate Starts for MmasiCarm_43:

(Start: 3 @39013 has 48 MA's), (5, 38956), (8, 38890), (9, 38884),

Gene: Morty007_43 Start: 39809, Stop: 39573, Start Num: 3
Candidate Starts for Morty007_43:
(Start: 3 @39809 has 48 MA's), (5, 39752), (8, 39686), (9, 39680),

Gene: Mulaychimus_43 Start: 38995, Stop: 38759, Start Num: 3
Candidate Starts for Mulaychimus_43:
(Start: 3 @38995 has 48 MA's), (5, 38938), (8, 38872), (9, 38866),

Gene: Neos5_43 Start: 39824, Stop: 39588, Start Num: 3
Candidate Starts for Neos5_43:
(Start: 3 @39824 has 48 MA's), (5, 39767), (8, 39701), (9, 39695),

Gene: Nozo_43 Start: 39789, Stop: 39553, Start Num: 3
Candidate Starts for Nozo_43:
(Start: 3 @39789 has 48 MA's), (5, 39732), (8, 39666), (9, 39660),

Gene: Obutu_43 Start: 39013, Stop: 38777, Start Num: 3
Candidate Starts for Obutu_43:
(Start: 3 @39013 has 48 MA's), (5, 38956), (8, 38890), (9, 38884),

Gene: Olivio_42 Start: 38882, Stop: 38646, Start Num: 3
Candidate Starts for Olivio_42:
(Start: 3 @38882 has 48 MA's), (5, 38825), (8, 38759), (9, 38753),

Gene: OrangeOswald_43 Start: 39030, Stop: 38794, Start Num: 3
Candidate Starts for OrangeOswald_43:
(Start: 3 @39030 has 48 MA's), (5, 38973), (8, 38907), (9, 38901),

Gene: Phaedrus_41 Start: 38950, Stop: 38714, Start Num: 3
Candidate Starts for Phaedrus_41:
(Start: 3 @38950 has 48 MA's), (5, 38893), (8, 38827), (9, 38821),

Gene: Phayeta_44 Start: 38895, Stop: 38659, Start Num: 3
Candidate Starts for Phayeta_44:
(Start: 3 @38895 has 48 MA's), (5, 38838), (8, 38772), (9, 38766),

Gene: Philly_42 Start: 38881, Stop: 38645, Start Num: 3
Candidate Starts for Philly_42:
(Start: 3 @38881 has 48 MA's), (5, 38824), (8, 38758), (9, 38752),

Gene: Phlyer_43 Start: 39769, Stop: 39533, Start Num: 3
Candidate Starts for Phlyer_43:
(Start: 3 @39769 has 48 MA's), (5, 39712), (8, 39646), (9, 39640),

Gene: RagingRooster_43 Start: 39031, Stop: 38795, Start Num: 3
Candidate Starts for RagingRooster_43:
(Start: 3 @39031 has 48 MA's), (5, 38974), (8, 38908), (9, 38902),

Gene: Rita1961_43 Start: 39014, Stop: 38778, Start Num: 3
Candidate Starts for Rita1961_43:
(Start: 3 @39014 has 48 MA's), (5, 38957), (8, 38891), (9, 38885),

Gene: RomaT_43 Start: 39804, Stop: 39568, Start Num: 3
Candidate Starts for RomaT_43:
(Start: 3 @39804 has 48 MA's), (5, 39747), (8, 39681), (9, 39675),

Gene: Shenandoah_43 Start: 39003, Stop: 38767, Start Num: 3
Candidate Starts for Shenandoah_43:
(Start: 3 @39003 has 48 MA's), (5, 38946), (8, 38880), (9, 38874),

Gene: SlippinJimmy_43 Start: 39796, Stop: 39560, Start Num: 3
Candidate Starts for SlippinJimmy_43:
(Start: 3 @39796 has 48 MA's), (5, 39739), (8, 39673), (9, 39667),

Gene: SwainyDoc_43 Start: 39025, Stop: 38789, Start Num: 3
Candidate Starts for SwainyDoc_43:
(Start: 3 @39025 has 48 MA's), (5, 38968), (8, 38902), (9, 38896),

Gene: SynergyX_43 Start: 39031, Stop: 38795, Start Num: 3
Candidate Starts for SynergyX_43:
(Start: 3 @39031 has 48 MA's), (5, 38974), (8, 38908), (9, 38902),

Gene: TPA2_48 Start: 37911, Stop: 37630, Start Num: 2
Candidate Starts for TPA2_48:
(1, 37920), (2, 37911), (Start: 3 @37869 has 48 MA's), (4, 37827), (6, 37800), (7, 37782), (8, 37755),
(10, 37734), (11, 37731),

Gene: TinyTerror_43 Start: 39016, Stop: 38780, Start Num: 3
Candidate Starts for TinyTerror_43:
(Start: 3 @39016 has 48 MA's), (5, 38959), (8, 38893), (9, 38887),

Gene: Tydolla_43 Start: 39765, Stop: 39529, Start Num: 3
Candidate Starts for Tydolla_43:
(Start: 3 @39765 has 48 MA's), (5, 39708), (8, 39642), (9, 39636),

Gene: Yahalom_43 Start: 39041, Stop: 38805, Start Num: 3
Candidate Starts for Yahalom_43:
(Start: 3 @39041 has 48 MA's), (5, 38984), (8, 38918), (9, 38912),

Gene: Yinz_43 Start: 39067, Stop: 38831, Start Num: 3
Candidate Starts for Yinz_43:
(Start: 3 @39067 has 48 MA's), (5, 39010), (8, 38944), (9, 38938),