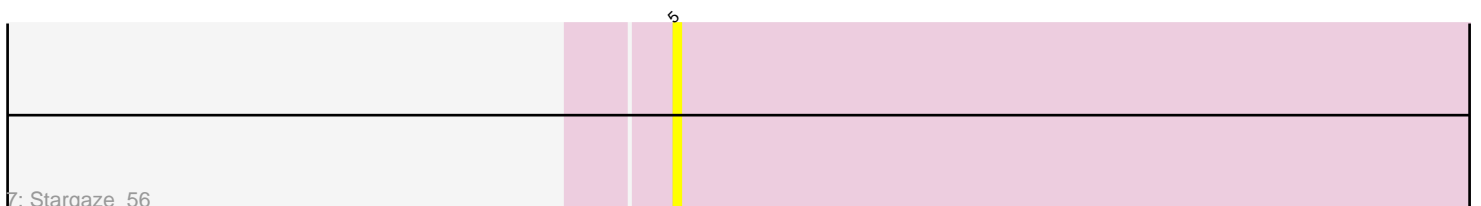
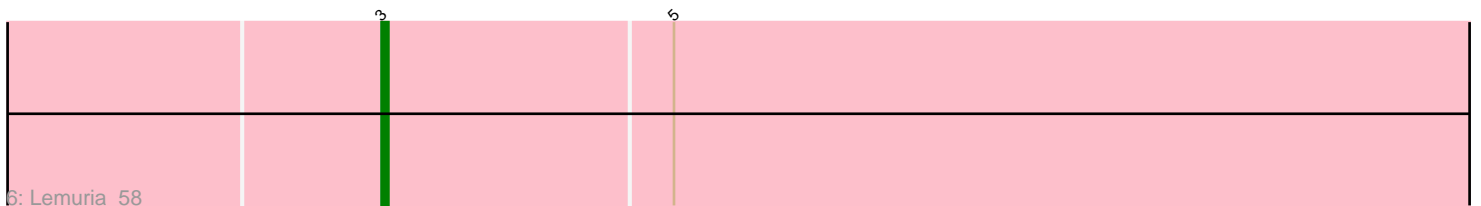
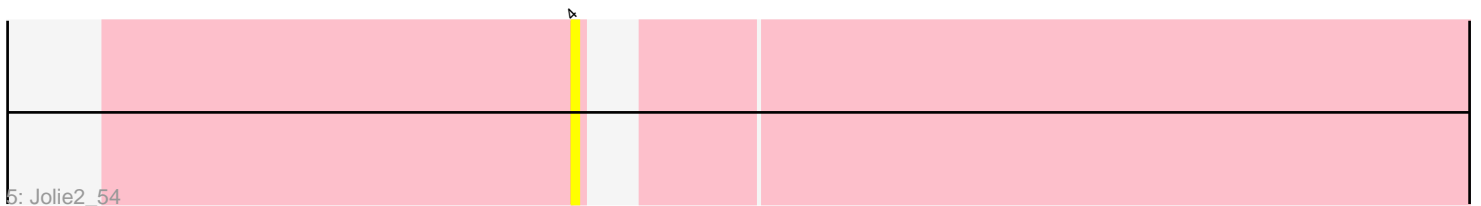
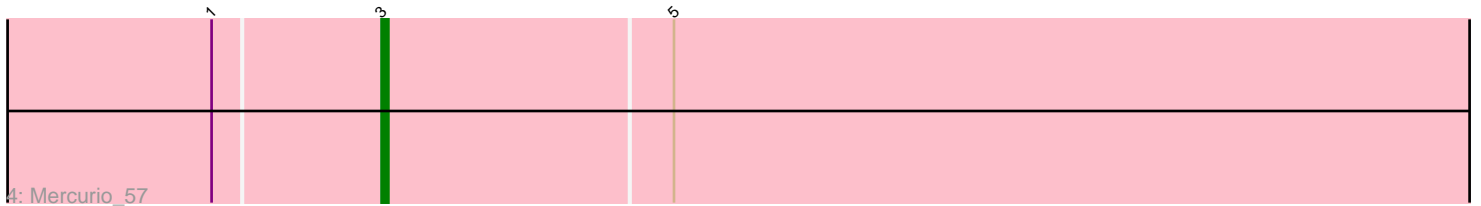
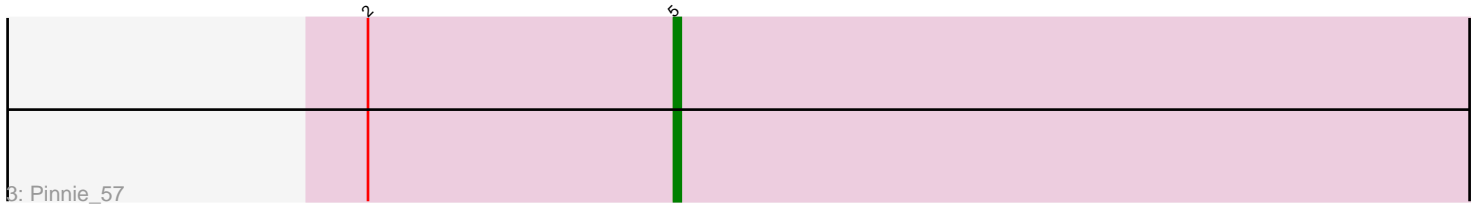
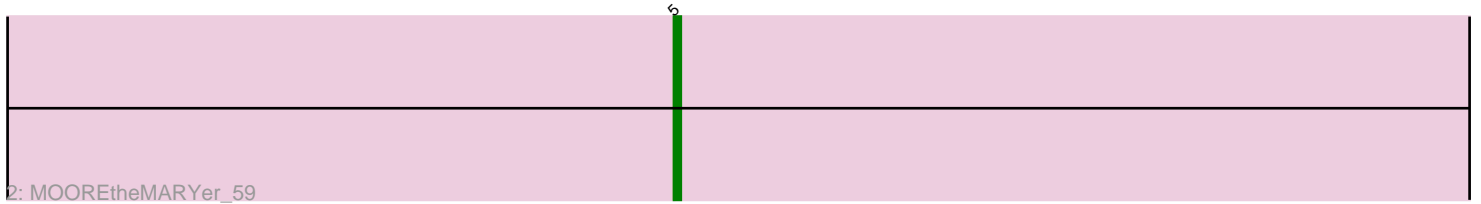
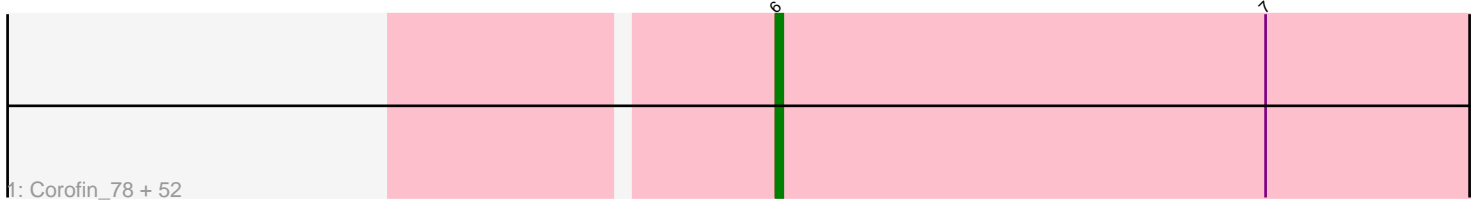


Pham 221457



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 221457 Report

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

Pham number 221457 has 59 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Corofin_78, Akoma_78, Gervas_79, Ben11_78, Jackstina_73, SwainyDoc_79, Briakila_78, LestyG_76, OrangeOswald_78, Daisy_77, HarveySr_77, Abinghost_78, Deenasa_78, Chalmers_77, Philly_77, Kamiyu_78, Olivio_78, Audrey_78, Obutu_80, Kronus_78, Gadget_79, ChaChing_78, Athena_80, Morty007_77, Nozo_78, Phlyer_78, Rita1961_79, Marlia_79, Marley1013_79, RomaT_78, Yahalom_76, Halfpint_77, Glubnar_78, Baloo_77, Tydolla_74, TinyTerror_79, Chentzyk_80, Bernardo_79, MmasiCarm_79, Heathcliff_78, Mortcellus_78, Devonte_77, SynergyX_78, Yinz_78, GlenHope_79, Shenandoah_77, Chandler_78, Phaedrus_73, RagingRooster_77, Pipefish_80, Compostia_77, Casbah_78, Neos5_78
- Track 2 : MOOREtheMARYer_59
- Track 3 : Pinnie_57
- Track 4 : Mercurio_57
- Track 5 : Jolie2_54
- Track 6 : Lemuria_58
- Track 7 : Stargaze_56

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

The start number called the most often in the published annotations is 6, it was called in 44 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_78, Akoma_78, Athena_80, Audrey_78, Baloo_77, Ben11_78, Bernardo_79, Briakila_78, Casbah_78, ChaChing_78, Chalmers_77, Chandler_78, Chentzyk_80, Compostia_77, Corofin_78, Daisy_77, Deenasa_78, Devonte_77, Gadget_79, Gervas_79, GlenHope_79, Glubnar_78, Halfpint_77, HarveySr_77, Heathcliff_78, Jackstina_73, Kamiyu_78, Kronus_78, LestyG_76, Marley1013_79, Marlia_79, MmasiCarm_79, Mortcellus_78, Morty007_77, Neos5_78, Nozo_78, Obutu_80, Olivio_78, OrangeOswald_78, Phaedrus_73, Philly_77, Phlyer_78, Pipefish_80, RagingRooster_77, Rita1961_79, RomaT_78, Shenandoah_77, SwainyDoc_79, SynergyX_78, TinyTerror_79, Tydolla_74, Yahalom_76, Yinz_78,

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

-

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

- Jolie2_54, Lemuria_58, MOOREtheMARYer_59, Mercurio_57, Pinnie_57, Stargaze_56,

Summary by start number:

Start 3:

- Found in 2 of 59 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lemuria_58 (G4), Mercurio_57 (G4),

Start 4:

- Found in 1 of 59 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jolie2_54 (G4),

Start 5:

- Found in 5 of 59 (8.5%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 60.0% of time when present
- Phage (with cluster) where this start called: MOOREtheMARYer_59 (G3), Pinnie_57 (G3), Stargaze_56 (G5),

Start 6:

- Found in 53 of 59 (89.8%) of genes in pham
- Manual Annotations of this start: 44 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_78 (B3), Akoma_78 (B3), Athena_80 (B3), Audrey_78 (B3), Baloo_77 (B3), Ben11_78 (B3), Bernardo_79 (B3), Briakila_78 (B3), Casbah_78 (B3), ChaChing_78 (B3), Chalmers_77 (B3), Chandler_78 (B3), Chentzyk_80 (B3), Compostia_77 (B3), Corofin_78 (B3), Daisy_77 (B3), Deenasa_78 (B3), Devonte_77 (B3), Gadget_79 (B3), Gervas_79 (B3), GlenHope_79 (B3), Glubnar_78 (B3), Halfpint_77 (B3), HarveySr_77 (B3), Heathcliff_78 (B3), Jackstina_73 (B3), Kamiyu_78 (B3), Kronus_78 (B3), LestyG_76 (B3), Marley1013_79 (B3), Marlia_79 (B3), MmasiCarm_79 (B3), Mortcellus_78 (B3), Morty007_77 (B3), Neos5_78 (B3), Nozo_78 (B3), Obutu_80 (B3), Olivio_78 (B3), OrangeOswald_78 (B3), Phaedrus_73 (B3), Philly_77 (B3), Phlyer_78 (B3), Pipefish_80 (B3), RagingRooster_77 (B3), Rita1961_79 (B3), RomaT_78 (B3), Shenandoah_77 (B3), SwainyDoc_79 (B3), SynergyX_78 (B3), TinyTerror_79 (B3), Tydolla_74 (B3), Yahalom_76 (B3), Yinz_78 (B3),

Summary by clusters:

There are 4 clusters represented in this pham: G5, G4, G3, B3,

Info for manual annotations of cluster B3:

- Start number 6 was manually annotated 44 times for cluster B3.

Info for manual annotations of cluster G3:

- Start number 5 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 3 was manually annotated 2 times for cluster G4.

Gene Information:

Gene: Abinghost_78 Start: 60573, Stop: 60385, Start Num: 6
Candidate Starts for Abinghost_78:
(Start: 6 @60573 has 44 MA's), (7, 60501),

Gene: Akoma_78 Start: 60613, Stop: 60425, Start Num: 6
Candidate Starts for Akoma_78:
(Start: 6 @60613 has 44 MA's), (7, 60541),

Gene: Athena_80 Start: 61348, Stop: 61160, Start Num: 6
Candidate Starts for Athena_80:
(Start: 6 @61348 has 44 MA's), (7, 61276),

Gene: Audrey_78 Start: 60602, Stop: 60414, Start Num: 6
Candidate Starts for Audrey_78:
(Start: 6 @60602 has 44 MA's), (7, 60530),

Gene: Baloo_77 Start: 60454, Stop: 60266, Start Num: 6
Candidate Starts for Baloo_77:
(Start: 6 @60454 has 44 MA's), (7, 60382),

Gene: Ben11_78 Start: 60829, Stop: 60641, Start Num: 6
Candidate Starts for Ben11_78:
(Start: 6 @60829 has 44 MA's), (7, 60757),

Gene: Bernardo_79 Start: 60792, Stop: 60604, Start Num: 6
Candidate Starts for Bernardo_79:
(Start: 6 @60792 has 44 MA's), (7, 60720),

Gene: Briakila_78 Start: 60800, Stop: 60612, Start Num: 6
Candidate Starts for Briakila_78:
(Start: 6 @60800 has 44 MA's), (7, 60728),

Gene: Casbah_78 Start: 60913, Stop: 60725, Start Num: 6
Candidate Starts for Casbah_78:
(Start: 6 @60913 has 44 MA's), (7, 60841),

Gene: ChaChing_78 Start: 60618, Stop: 60430, Start Num: 6
Candidate Starts for ChaChing_78:
(Start: 6 @60618 has 44 MA's), (7, 60546),

Gene: Chalmers_77 Start: 61048, Stop: 60860, Start Num: 6
Candidate Starts for Chalmers_77:
(Start: 6 @61048 has 44 MA's), (7, 60976),

Gene: Chandler_78 Start: 61389, Stop: 61201, Start Num: 6
Candidate Starts for Chandler_78:
(Start: 6 @61389 has 44 MA's), (7, 61317),

Gene: Chentzyk_80 Start: 61556, Stop: 61368, Start Num: 6
Candidate Starts for Chentzyk_80:
(Start: 6 @61556 has 44 MA's), (7, 61484),

Gene: Compostia_77 Start: 61058, Stop: 60870, Start Num: 6
Candidate Starts for Compostia_77:
(Start: 6 @61058 has 44 MA's), (7, 60986),

Gene: Corofin_78 Start: 60624, Stop: 60436, Start Num: 6
Candidate Starts for Corofin_78:
(Start: 6 @60624 has 44 MA's), (7, 60552),

Gene: Daisy_77 Start: 60175, Stop: 59987, Start Num: 6
Candidate Starts for Daisy_77:
(Start: 6 @60175 has 44 MA's), (7, 60103),

Gene: Deenasa_78 Start: 61524, Stop: 61336, Start Num: 6
Candidate Starts for Deenasa_78:
(Start: 6 @61524 has 44 MA's), (7, 61452),

Gene: Devonte_77 Start: 60240, Stop: 60052, Start Num: 6
Candidate Starts for Devonte_77:
(Start: 6 @60240 has 44 MA's), (7, 60168),

Gene: Gadjet_79 Start: 60975, Stop: 60787, Start Num: 6
Candidate Starts for Gadjet_79:
(Start: 6 @60975 has 44 MA's), (7, 60903),

Gene: Gervas_79 Start: 61069, Stop: 60881, Start Num: 6
Candidate Starts for Gervas_79:
(Start: 6 @61069 has 44 MA's), (7, 60997),

Gene: GlenHope_79 Start: 60648, Stop: 60460, Start Num: 6
Candidate Starts for GlenHope_79:
(Start: 6 @60648 has 44 MA's), (7, 60576),

Gene: Glubnar_78 Start: 60507, Stop: 60319, Start Num: 6
Candidate Starts for Glubnar_78:
(Start: 6 @60507 has 44 MA's), (7, 60435),

Gene: Halfpint_77 Start: 60390, Stop: 60202, Start Num: 6
Candidate Starts for Halfpint_77:
(Start: 6 @60390 has 44 MA's), (7, 60318),

Gene: HarveySr_77 Start: 60159, Stop: 59971, Start Num: 6
Candidate Starts for HarveySr_77:
(Start: 6 @60159 has 44 MA's), (7, 60087),

Gene: Heathcliff_78 Start: 60569, Stop: 60381, Start Num: 6
Candidate Starts for Heathcliff_78:
(Start: 6 @60569 has 44 MA's), (7, 60497),

Gene: Jackstina_73 Start: 60483, Stop: 60295, Start Num: 6
Candidate Starts for Jackstina_73:
(Start: 6 @60483 has 44 MA's), (7, 60411),

Gene: Jolie2_54 Start: 39612, Stop: 39821, Start Num: 4
Candidate Starts for Jolie2_54:
(4, 39612),

Gene: Kamiyu_78 Start: 60572, Stop: 60384, Start Num: 6
Candidate Starts for Kamiyu_78:
(Start: 6 @60572 has 44 MA's), (7, 60500),

Gene: Kronus_78 Start: 61656, Stop: 61468, Start Num: 6
Candidate Starts for Kronus_78:
(Start: 6 @61656 has 44 MA's), (7, 61584),

Gene: Lemuria_58 Start: 41205, Stop: 41450, Start Num: 3
Candidate Starts for Lemuria_58:
(Start: 3 @41205 has 2 MA's), (Start: 5 @41247 has 2 MA's),

Gene: LestyG_76 Start: 60142, Stop: 59954, Start Num: 6
Candidate Starts for LestyG_76:
(Start: 6 @60142 has 44 MA's), (7, 60070),

Gene: MOOREtheMARYer_59 Start: 40807, Stop: 40995, Start Num: 5
Candidate Starts for MOOREtheMARYer_59:
(Start: 5 @40807 has 2 MA's),

Gene: Marley1013_79 Start: 61508, Stop: 61320, Start Num: 6
Candidate Starts for Marley1013_79:
(Start: 6 @61508 has 44 MA's), (7, 61436),

Gene: Marlia_79 Start: 61041, Stop: 60853, Start Num: 6
Candidate Starts for Marlia_79:
(Start: 6 @61041 has 44 MA's), (7, 60969),

Gene: Mercurio_57 Start: 41698, Stop: 41943, Start Num: 3
Candidate Starts for Mercurio_57:
(1, 41674), (Start: 3 @41698 has 2 MA's), (Start: 5 @41740 has 2 MA's),

Gene: MmasiCarm_79 Start: 61011, Stop: 60823, Start Num: 6
Candidate Starts for MmasiCarm_79:
(Start: 6 @61011 has 44 MA's), (7, 60939),

Gene: Mortcellus_78 Start: 61727, Stop: 61539, Start Num: 6
Candidate Starts for Mortcellus_78:
(Start: 6 @61727 has 44 MA's), (7, 61655),

Gene: Morty007_77 Start: 61508, Stop: 61320, Start Num: 6

Candidate Starts for Morty007_77:
(Start: 6 @61508 has 44 MA's), (7, 61436),

Gene: Neos5_78 Start: 60970, Stop: 60782, Start Num: 6
Candidate Starts for Neos5_78:
(Start: 6 @60970 has 44 MA's), (7, 60898),

Gene: Nozo_78 Start: 61379, Stop: 61191, Start Num: 6
Candidate Starts for Nozo_78:
(Start: 6 @61379 has 44 MA's), (7, 61307),

Gene: Obutu_80 Start: 61182, Stop: 60994, Start Num: 6
Candidate Starts for Obutu_80:
(Start: 6 @61182 has 44 MA's), (7, 61110),

Gene: Olivio_78 Start: 60823, Stop: 60635, Start Num: 6
Candidate Starts for Olivio_78:
(Start: 6 @60823 has 44 MA's), (7, 60751),

Gene: OrangeOswald_78 Start: 60613, Stop: 60425, Start Num: 6
Candidate Starts for OrangeOswald_78:
(Start: 6 @60613 has 44 MA's), (7, 60541),

Gene: Phaedrus_73 Start: 60030, Stop: 59842, Start Num: 6
Candidate Starts for Phaedrus_73:
(Start: 6 @60030 has 44 MA's), (7, 59958),

Gene: Philly_77 Start: 60462, Stop: 60274, Start Num: 6
Candidate Starts for Philly_77:
(Start: 6 @60462 has 44 MA's), (7, 60390),

Gene: Phlyer_78 Start: 61325, Stop: 61137, Start Num: 6
Candidate Starts for Phlyer_78:
(Start: 6 @61325 has 44 MA's), (7, 61253),

Gene: Pinnie_57 Start: 40921, Stop: 41109, Start Num: 5
Candidate Starts for Pinnie_57:
(2, 40876), (Start: 5 @40921 has 2 MA's),

Gene: Pipefish_80 Start: 61721, Stop: 61533, Start Num: 6
Candidate Starts for Pipefish_80:
(Start: 6 @61721 has 44 MA's), (7, 61649),

Gene: RagingRooster_77 Start: 60305, Stop: 60117, Start Num: 6
Candidate Starts for RagingRooster_77:
(Start: 6 @60305 has 44 MA's), (7, 60233),

Gene: Rita1961_79 Start: 60959, Stop: 60771, Start Num: 6
Candidate Starts for Rita1961_79:
(Start: 6 @60959 has 44 MA's), (7, 60887),

Gene: RomaT_78 Start: 61179, Stop: 60991, Start Num: 6
Candidate Starts for RomaT_78:

(Start: 6 @61179 has 44 MA's), (7, 61107),

Gene: Shenandoah_77 Start: 60225, Stop: 60037, Start Num: 6

Candidate Starts for Shenandoah_77:

(Start: 6 @60225 has 44 MA's), (7, 60153),

Gene: Stargaze_56 Start: 40411, Stop: 40605, Start Num: 5

Candidate Starts for Stargaze_56:

(Start: 5 @40411 has 2 MA's),

Gene: SwainyDoc_79 Start: 60988, Stop: 60800, Start Num: 6

Candidate Starts for SwainyDoc_79:

(Start: 6 @60988 has 44 MA's), (7, 60916),

Gene: SynergyX_78 Start: 60616, Stop: 60428, Start Num: 6

Candidate Starts for SynergyX_78:

(Start: 6 @60616 has 44 MA's), (7, 60544),

Gene: TinyTerror_79 Start: 61039, Stop: 60851, Start Num: 6

Candidate Starts for TinyTerror_79:

(Start: 6 @61039 has 44 MA's), (7, 60967),

Gene: Tydolla_74 Start: 60595, Stop: 60407, Start Num: 6

Candidate Starts for Tydolla_74:

(Start: 6 @60595 has 44 MA's), (7, 60523),

Gene: Yahalom_76 Start: 60422, Stop: 60234, Start Num: 6

Candidate Starts for Yahalom_76:

(Start: 6 @60422 has 44 MA's), (7, 60350),

Gene: Yinz_78 Start: 60487, Stop: 60299, Start Num: 6

Candidate Starts for Yinz_78:

(Start: 6 @60487 has 44 MA's), (7, 60415),