



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 308634 Report

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

Pham number 308634 has 61 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Katalie_41, RedBear_42, South40_41
- Track 2 : Nerdos_40, Caliburn_41, Indigo_40, BeardedLady_42, Unstoppable_41
- Track 3 : Eddasa_42, Jash_42, Oliynyk_42, Izzy_42, Rusticus_42, BryanRecycles_42
- Track 4 : Asten_41, Emaanora_44, SarahRose_41, Triste_41, TagePhighter_43, Werner_41, Chucky_41, Whatever_41, Snorlax_41, Dwayne_41, BarryBee_44
- Track 5 : Ozzie_41, Hydra_43, Aaronocolus_41, Esperer_41, Legacy_41, Leviticus_41, SunsetPointe_41
- Track 6 : Lika_41, Godpower_42
- Track 7 : Maneekul_41, TuanPN_40, Ejemplo_40
- Track 8 : Hippo_41
- Track 9 : Rana_42, Nabi_42
- Track 10 : Bovely_41, Phettuccine_41
- Track 11 : Brataylor_44
- Track 12 : Lannister_43
- Track 13 : Nanodon_43
- Track 14 : Yasdnil_41
- Track 15 : Sujidade_42
- Track 16 : Dattran_43, Toma_41, Goby_41
- Track 17 : Zemlya_43
- Track 18 : Celeste_42
- Track 19 : Danzina_43
- Track 20 : OzzyJ_42
- Track 21 : EnochSoames_44
- Track 22 : Lorelei_42
- Track 23 : Superstar_45
- Track 24 : Daudau_42
- Track 25 : Yosif_44
- Track 26 : Verabelle_45
- Track 27 : VieEnRose_42

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 43 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asten_41, BarryBee_44, Brataylor_44, BryanRecycles_42, Celeste_42, Chucky_41, Danzina_43, Dattran_43, Daudau_42, Dwayne_41, Eddasa_42, Ejemplo_40, Emaanora_44, EnochSoames_44, Goby_41, Godpower_42, Hippo_41, Izzy_42, Jash_42, Katalie_41, Lannister_43, Lika_41, Lorelei_42, Maneekul_41, Nabi_42, Nanodon_43, Oliynyk_42, OzzyJ_42, Rana_42, RedBear_42, Rusticus_42, SarahRose_41, Snorlax_41, South40_41, Sujidade_42, TagePhighter_43, Toma_41, Triste_41, TuanPN_40, Werner_41, Whatever_41, Yasdnii_41, Yosif_44, Zemlya_43,

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

- Superstar_45,

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

- Aaronocolus_41, BeardedLady_42, Bovely_41, Caliburn_41, Esperer_41, Hydra_43, Indigo_40, Legacy_41, Leviticus_41, Nerdos_40, Ozzie_41, Phettuccine_41, SunsetPointe_41, Unstoppable_41, Verabelle_45, VieEnRose_42,

Summary by start number:

Start 4:

- Found in 14 of 61 (23.0%) of genes in pham
- Manual Annotations of this start: 14 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aaronocolus_41 (BD1), BeardedLady_42 (BD1), Bovely_41 (BD1), Caliburn_41 (BD1), Esperer_41 (BD1), Hydra_43 (BD1), Indigo_40 (BD1), Legacy_41 (BD1), Leviticus_41 (BD1), Nerdos_40 (BD1), Ozzie_41 (BD1), Phettuccine_41 (BD1), SunsetPointe_41 (BD1), Unstoppable_41 (BD1),

Start 5:

- Found in 45 of 61 (73.8%) of genes in pham
- Manual Annotations of this start: 43 of 58
- Called 97.8% of time when present
- Phage (with cluster) where this start called: Asten_41 (BD1), BarryBee_44 (BD1), Brataylor_44 (BD1), BryanRecycles_42 (BD1), Celeste_42 (BD1), Chucky_41 (BD1), Danzina_43 (BD1), Dattran_43 (BD1), Daudau_42 (BD2), Dwayne_41 (BD1), Eddasa_42 (BD1), Ejemplo_40 (BD1), Emaanora_44 (BD1), EnochSoames_44 (BD1), Goby_41 (BD1), Godpower_42 (BD1), Hippo_41 (BD1), Izzy_42 (BD1), Jash_42 (BD1), Katalie_41 (BD1), Lannister_43 (BD1), Lika_41 (BD1), Lorelei_42 (BD1), Maneekul_41 (BD1), Nabi_42 (BD1), Nanodon_43 (BD1), Oliynyk_42 (BD1), OzzyJ_42 (BD1), Rana_42 (BD1), RedBear_42 (BD1), Rusticus_42 (BD1), SarahRose_41 (BD1), Snorlax_41 (BD1), South40_41 (BD1), Sujidade_42 (BD1), TagePhighter_43 (BD1), Toma_41 (BD1), Triste_41 (BD1), TuanPN_40 (BD1), Werner_41 (BD1), Whatever_41 (BD1), Yasdnii_41 (BD1), Yosif_44 (BD3), Zemlya_43 (BD1),

Start 6:

- Found in 1 of 61 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 58
- Called 100.0% of time when present

- Phage (with cluster) where this start called: VieEnRose_42 (BD6),

Start 7:

- Found in 1 of 61 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Verabelle_45 (BD3),

Start 8:

- Found in 1 of 61 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Superstar_45 (BD2),

Summary by clusters:

There are 4 clusters represented in this pham: BD6, BD1, BD3, BD2,

Info for manual annotations of cluster BD1:

- Start number 4 was manually annotated 14 times for cluster BD1.
- Start number 5 was manually annotated 41 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 5 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 5 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD6:

- Start number 6 was manually annotated 1 time for cluster BD6.

Gene Information:

Gene: Aaronocolus_41 Start: 28823, Stop: 28996, Start Num: 4

Candidate Starts for Aaronocolus_41:

(Start: 4 @28823 has 14 MA's), (11, 28874), (12, 28883), (22, 28982),

Gene: Asten_41 Start: 29182, Stop: 29343, Start Num: 5

Candidate Starts for Asten_41:

(3, 29035), (Start: 5 @29182 has 43 MA's), (16, 29266), (22, 29329),

Gene: BarryBee_44 Start: 29192, Stop: 29353, Start Num: 5

Candidate Starts for BarryBee_44:

(3, 29045), (Start: 5 @29192 has 43 MA's), (16, 29276), (22, 29339),

Gene: BeardedLady_42 Start: 29076, Stop: 29249, Start Num: 4

Candidate Starts for BeardedLady_42:

(Start: 4 @29076 has 14 MA's), (11, 29127), (12, 29136), (13, 29145), (22, 29235),

Gene: Bovely_41 Start: 28829, Stop: 29002, Start Num: 4

Candidate Starts for Bovely_41:

(Start: 4 @28829 has 14 MA's), (11, 28880), (12, 28889), (21, 28976), (22, 28988),

Gene: Brataylor_44 Start: 30165, Stop: 30323, Start Num: 5

Candidate Starts for Brataylor_44:

(Start: 5 @30165 has 43 MA's), (12, 30210), (22, 30309),

Gene: BryanRecycles_42 Start: 29192, Stop: 29347, Start Num: 5

Candidate Starts for BryanRecycles_42:

(Start: 5 @29192 has 43 MA's),

Gene: Caliburn_41 Start: 28806, Stop: 28979, Start Num: 4

Candidate Starts for Caliburn_41:

(Start: 4 @28806 has 14 MA's), (11, 28857), (12, 28866), (13, 28875), (22, 28965),

Gene: Celeste_42 Start: 29631, Stop: 29789, Start Num: 5

Candidate Starts for Celeste_42:

(Start: 5 @29631 has 43 MA's), (12, 29676), (22, 29775),

Gene: Chucky_41 Start: 29196, Stop: 29357, Start Num: 5

Candidate Starts for Chucky_41:

(3, 29049), (Start: 5 @29196 has 43 MA's), (16, 29280), (22, 29343),

Gene: Danzina_43 Start: 29932, Stop: 30090, Start Num: 5

Candidate Starts for Danzina_43:

(Start: 5 @29932 has 43 MA's), (12, 29977), (22, 30076),

Gene: Dattran_43 Start: 29759, Stop: 29932, Start Num: 5

Candidate Starts for Dattran_43:

(Start: 5 @29759 has 43 MA's), (9, 29783), (11, 29810), (12, 29819), (22, 29918), (25, 29927),

Gene: Daudau_42 Start: 30121, Stop: 30303, Start Num: 5

Candidate Starts for Daudau_42:

(3, 29962), (Start: 5 @30121 has 43 MA's), (10, 30157), (11, 30178), (14, 30199), (19, 30268),

Gene: Dwayne_41 Start: 29183, Stop: 29344, Start Num: 5

Candidate Starts for Dwayne_41:

(3, 29036), (Start: 5 @29183 has 43 MA's), (16, 29267), (22, 29330),

Gene: Eddasa_42 Start: 29192, Stop: 29347, Start Num: 5

Candidate Starts for Eddasa_42:

(Start: 5 @29192 has 43 MA's),

Gene: Ejemplo_40 Start: 29127, Stop: 29282, Start Num: 5

Candidate Starts for Ejemplo_40:

(Start: 5 @29127 has 43 MA's), (12, 29169),

Gene: Emaanora_44 Start: 29141, Stop: 29302, Start Num: 5

Candidate Starts for Emaanora_44:

(3, 28994), (Start: 5 @29141 has 43 MA's), (16, 29225), (22, 29288),

Gene: EnochSoames_44 Start: 29187, Stop: 29342, Start Num: 5

Candidate Starts for EnochSoames_44:

(Start: 5 @29187 has 43 MA's),

Gene: Esperer_41 Start: 28642, Stop: 28815, Start Num: 4
Candidate Starts for Esperer_41:
(Start: 4 @28642 has 14 MA's), (11, 28693), (12, 28702), (22, 28801),

Gene: Goby_41 Start: 29658, Stop: 29831, Start Num: 5
Candidate Starts for Goby_41:
(Start: 5 @29658 has 43 MA's), (9, 29682), (11, 29709), (12, 29718), (22, 29817), (25, 29826),

Gene: Godpower_42 Start: 29641, Stop: 29814, Start Num: 5
Candidate Starts for Godpower_42:
(Start: 5 @29641 has 43 MA's), (9, 29665), (11, 29692), (12, 29701), (22, 29800), (25, 29809),

Gene: Hippo_41 Start: 29195, Stop: 29356, Start Num: 5
Candidate Starts for Hippo_41:
(3, 29048), (Start: 5 @29195 has 43 MA's), (15, 29276), (16, 29279), (22, 29342),

Gene: Hydra_43 Start: 29354, Stop: 29527, Start Num: 4
Candidate Starts for Hydra_43:
(Start: 4 @29354 has 14 MA's), (11, 29405), (12, 29414), (22, 29513),

Gene: Indigo_40 Start: 28822, Stop: 28995, Start Num: 4
Candidate Starts for Indigo_40:
(Start: 4 @28822 has 14 MA's), (11, 28873), (12, 28882), (13, 28891), (22, 28981),

Gene: Izzy_42 Start: 29239, Stop: 29394, Start Num: 5
Candidate Starts for Izzy_42:
(Start: 5 @29239 has 43 MA's),

Gene: Jash_42 Start: 29192, Stop: 29347, Start Num: 5
Candidate Starts for Jash_42:
(Start: 5 @29192 has 43 MA's),

Gene: Katalie_41 Start: 29369, Stop: 29542, Start Num: 5
Candidate Starts for Katalie_41:
(Start: 5 @29369 has 43 MA's), (22, 29528),

Gene: Lannister_43 Start: 29849, Stop: 30007, Start Num: 5
Candidate Starts for Lannister_43:
(Start: 5 @29849 has 43 MA's), (16, 29930),

Gene: Legacy_41 Start: 28797, Stop: 28970, Start Num: 4
Candidate Starts for Legacy_41:
(Start: 4 @28797 has 14 MA's), (11, 28848), (12, 28857), (22, 28956),

Gene: Leviticus_41 Start: 28826, Stop: 28999, Start Num: 4
Candidate Starts for Leviticus_41:
(Start: 4 @28826 has 14 MA's), (11, 28877), (12, 28886), (22, 28985),

Gene: Lika_41 Start: 29644, Stop: 29817, Start Num: 5
Candidate Starts for Lika_41:
(Start: 5 @29644 has 43 MA's), (9, 29668), (11, 29695), (12, 29704), (22, 29803), (25, 29812),

Gene: Lorelei_42 Start: 29710, Stop: 29868, Start Num: 5
Candidate Starts for Lorelei_42:
(Start: 5 @29710 has 43 MA's), (12, 29755), (22, 29854),

Gene: Maneekul_41 Start: 29217, Stop: 29372, Start Num: 5
Candidate Starts for Maneekul_41:
(Start: 5 @29217 has 43 MA's), (12, 29259),

Gene: Nabi_42 Start: 29710, Stop: 29868, Start Num: 5
Candidate Starts for Nabi_42:
(Start: 5 @29710 has 43 MA's), (12, 29755), (22, 29854),

Gene: Nanodon_43 Start: 29475, Stop: 29651, Start Num: 5
Candidate Starts for Nanodon_43:
(Start: 5 @29475 has 43 MA's), (11, 29529), (12, 29538), (16, 29574),

Gene: Nerdos_40 Start: 28821, Stop: 28994, Start Num: 4
Candidate Starts for Nerdos_40:
(Start: 4 @28821 has 14 MA's), (11, 28872), (12, 28881), (13, 28890), (22, 28980),

Gene: Oliynyk_42 Start: 29192, Stop: 29347, Start Num: 5
Candidate Starts for Oliynyk_42:
(Start: 5 @29192 has 43 MA's),

Gene: Ozzie_41 Start: 28806, Stop: 28979, Start Num: 4
Candidate Starts for Ozzie_41:
(Start: 4 @28806 has 14 MA's), (11, 28857), (12, 28866), (22, 28965),

Gene: OzzyJ_42 Start: 29183, Stop: 29344, Start Num: 5
Candidate Starts for OzzyJ_42:
(Start: 5 @29183 has 43 MA's), (15, 29264), (16, 29267), (22, 29330),

Gene: Phettuccine_41 Start: 28822, Stop: 28995, Start Num: 4
Candidate Starts for Phettuccine_41:
(Start: 4 @28822 has 14 MA's), (11, 28873), (12, 28882), (21, 28969), (22, 28981),

Gene: Rana_42 Start: 29710, Stop: 29868, Start Num: 5
Candidate Starts for Rana_42:
(Start: 5 @29710 has 43 MA's), (12, 29755), (22, 29854),

Gene: RedBear_42 Start: 29369, Stop: 29542, Start Num: 5
Candidate Starts for RedBear_42:
(Start: 5 @29369 has 43 MA's), (22, 29528),

Gene: Rusticus_42 Start: 29192, Stop: 29347, Start Num: 5
Candidate Starts for Rusticus_42:
(Start: 5 @29192 has 43 MA's),

Gene: SarahRose_41 Start: 29191, Stop: 29352, Start Num: 5
Candidate Starts for SarahRose_41:
(3, 29044), (Start: 5 @29191 has 43 MA's), (16, 29275), (22, 29338),

Gene: Snorlax_41 Start: 29195, Stop: 29356, Start Num: 5

Candidate Starts for Snorlax_41:
(3, 29048), (Start: 5 @29195 has 43 MA's), (16, 29279), (22, 29342),

Gene: South40_41 Start: 29369, Stop: 29542, Start Num: 5
Candidate Starts for South40_41:
(Start: 5 @29369 has 43 MA's), (22, 29528),

Gene: Sujidade_42 Start: 29926, Stop: 30099, Start Num: 5
Candidate Starts for Sujidade_42:
(Start: 5 @29926 has 43 MA's), (9, 29950), (11, 29977), (12, 29986), (22, 30085), (25, 30094),

Gene: SunsetPointe_41 Start: 28813, Stop: 28986, Start Num: 4
Candidate Starts for SunsetPointe_41:
(Start: 4 @28813 has 14 MA's), (11, 28864), (12, 28873), (22, 28972),

Gene: Superstar_45 Start: 31203, Stop: 31358, Start Num: 8
Candidate Starts for Superstar_45:
(Start: 5 @31179 has 43 MA's), (8, 31203), (14, 31254), (23, 31341), (24, 31347),

Gene: TagePhighter_43 Start: 29195, Stop: 29356, Start Num: 5
Candidate Starts for TagePhighter_43:
(3, 29048), (Start: 5 @29195 has 43 MA's), (16, 29279), (22, 29342),

Gene: Toma_41 Start: 29658, Stop: 29831, Start Num: 5
Candidate Starts for Toma_41:
(Start: 5 @29658 has 43 MA's), (9, 29682), (11, 29709), (12, 29718), (22, 29817), (25, 29826),

Gene: Triste_41 Start: 29183, Stop: 29344, Start Num: 5
Candidate Starts for Triste_41:
(3, 29036), (Start: 5 @29183 has 43 MA's), (16, 29267), (22, 29330),

Gene: TuanPN_40 Start: 29127, Stop: 29282, Start Num: 5
Candidate Starts for TuanPN_40:
(Start: 5 @29127 has 43 MA's), (12, 29169),

Gene: Unstoppable_41 Start: 28817, Stop: 28990, Start Num: 4
Candidate Starts for Unstoppable_41:
(Start: 4 @28817 has 14 MA's), (11, 28868), (12, 28877), (13, 28886), (22, 28976),

Gene: Verabelle_45 Start: 30769, Stop: 30918, Start Num: 7
Candidate Starts for Verabelle_45:
(7, 30769), (13, 30817), (18, 30886), (20, 30892),

Gene: VieEnRose_42 Start: 29660, Stop: 29806, Start Num: 6
Candidate Starts for VieEnRose_42:
(1, 29396), (2, 29480), (Start: 6 @29660 has 1 MA's), (11, 29693), (17, 29777),

Gene: Werner_41 Start: 29193, Stop: 29354, Start Num: 5
Candidate Starts for Werner_41:
(3, 29046), (Start: 5 @29193 has 43 MA's), (16, 29277), (22, 29340),

Gene: Whatever_41 Start: 29193, Stop: 29354, Start Num: 5
Candidate Starts for Whatever_41:

(3, 29046), (Start: 5 @29193 has 43 MA's), (16, 29277), (22, 29340),

Gene: Yasdnil_41 Start: 29245, Stop: 29400, Start Num: 5

Candidate Starts for Yasdnil_41:

(Start: 5 @29245 has 43 MA's), (12, 29287),

Gene: Yosif_44 Start: 31307, Stop: 31468, Start Num: 5

Candidate Starts for Yosif_44:

(Start: 5 @31307 has 43 MA's), (12, 31352), (19, 31433),

Gene: Zemlya_43 Start: 29732, Stop: 29890, Start Num: 5

Candidate Starts for Zemlya_43:

(Start: 5 @29732 has 43 MA's), (12, 29777), (22, 29876),