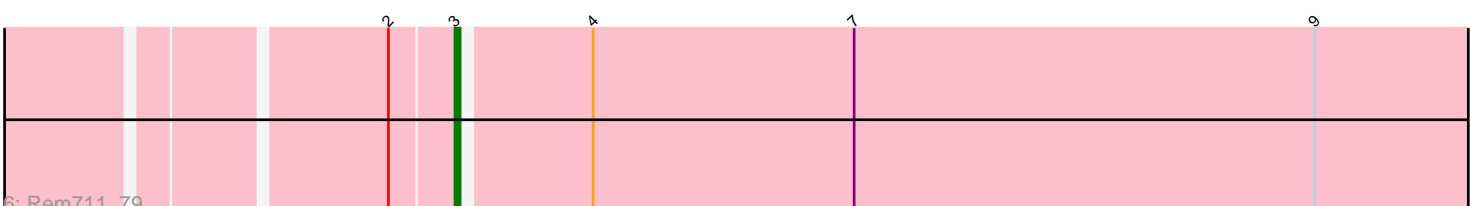
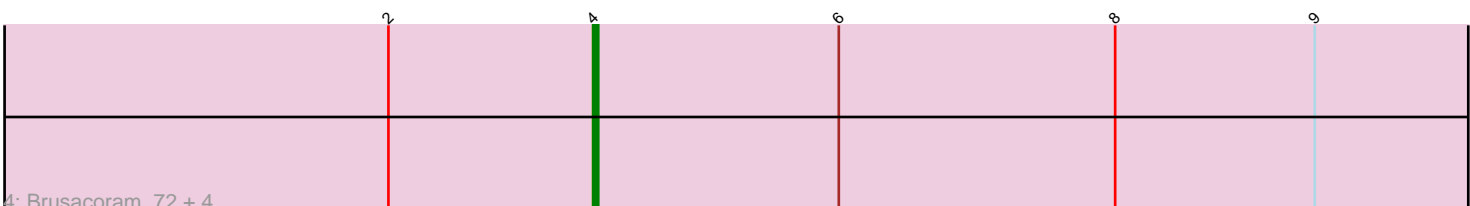
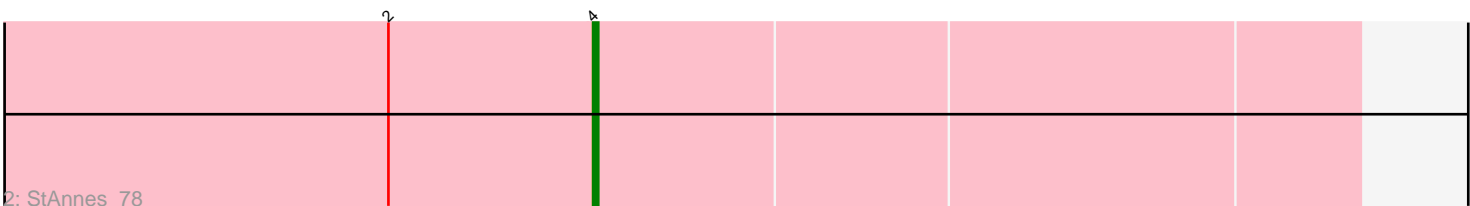


Pham 86060



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 86060 Report

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

Pham number 86060 has 40 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Zizzle_83, HC_64, HC_68
- Track 2 : StAnnes_78
- Track 3 : Jebeks_71, Megiddo_73, KilKor_74, Juniormint_69, Fishburne_72, Langerak_72, Donovan_73, DillTech15_83, Mangethe_76, Phalm_74, Camster_74, Malithi_73, Sonah_74, Jung_71, StressBall_73, CactusJack_74, Majeke_76, Totinger_79, Zilizebeth_78, Phegasus_76, Techage_74, FirstPlacePfu_74, Fastidio_74, Vidya_71, Glaske_73, LittleShirley_82, Willsammy_75, Kari_72
- Track 4 : Brusacoram_72, Ksquared_74, Bunnies_75, Thespiis_72, Atcoo_72
- Track 5 : StevieRay_75
- Track 6 : Rem711_79
- Track 7 : 32HC_80

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

The start number called the most often in the published annotations is 4, it was called in 30 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atcoo_72, Brusacoram_72, Bunnies_75, CactusJack_74, Camster_74, DillTech15_83, Donovan_73, Fastidio_74, FirstPlacePfu_74, Fishburne_72, Glaske_73, Jebeks_71, Jung_71, Juniormint_69, Kari_72, KilKor_74, Ksquared_74, Langerak_72, LittleShirley_82, Majeke_76, Malithi_73, Mangethe_76, Megiddo_73, Phalm_74, Phegasus_76, Sonah_74, StAnnes_78, StevieRay_75, StressBall_73, Techage_74, Thespiis_72, Totinger_79, Vidya_71, Willsammy_75, Zilizebeth_78,

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

- 32HC_80, Rem711_79,

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

- HC_64, HC_68, Zizzle_83,

Summary by start number:

Start 3:

- Found in 2 of 40 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_80 (Z), Rem711_79 (Z),

Start 4:

- Found in 37 of 40 (92.5%) of genes in pham
- Manual Annotations of this start: 30 of 34
- Called 94.6% of time when present
- Phage (with cluster) where this start called: Atcoo_72 (P1), Brusacoram_72 (P1), Bunnies_75 (P1), CactusJack_74 (P1), Camster_74 (P1), DillTech15_83 (F1), Donovan_73 (P1), Fastidio_74 (F1), FirstPlacePfu_74 (P1), Fishburne_72 (P1), Glaske_73 (P1), Jebeks_71 (P1), Jung_71 (P1), Juniormint_69 (P1), Kari_72 (P1), KilKor_74 (P1), Ksquared_74 (P1), Langerak_72 (P1), LittleShirley_82 (F1), Majeke_76 (P1), Malithi_73 (P1), Mangethe_76 (P1), Megiddo_73 (P1), Phalm_74 (P1), Phegasus_76 (P1), Sonah_74 (P1), StAnnes_78 (F1), StevieRay_75 (P1), StressBall_73 (P1), Techage_74 (P1), Thespis_72 (P1), Totinger_79 (F1), Vidya_71 (P1), Willsammy_75 (P1), Zilizebeth_78 (P1),

Start 5:

- Found in 3 of 40 (7.5%) of genes in pham
- Manual Annotations of this start: 3 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HC_64 (I1), HC_68 (I1), Zizzle_83 (F1),

Summary by clusters:

There are 4 clusters represented in this pham: I1, F1, Z, P1,

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 2 times for cluster F1.
- Start number 5 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster I1:

- Start number 5 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster P1:

- Start number 4 was manually annotated 28 times for cluster P1.

Info for manual annotations of cluster Z:

- Start number 3 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_80 Start: 48410, Stop: 48622, Start Num: 3

Candidate Starts for 32HC_80:

(2, 48398), (Start: 3 @48410 has 1 MA's), (Start: 4 @48434 has 30 MA's), (9, 48575),

Gene: Atcoo_72 Start: 46854, Stop: 47057, Start Num: 4

Candidate Starts for Atcoo_72:

(2, 46815), (Start: 4 @46854 has 30 MA's), (6, 46902), (8, 46956), (9, 46995),

Gene: Brusacoram_72 Start: 45397, Stop: 45600, Start Num: 4
Candidate Starts for Brusacoram_72:
(2, 45358), (Start: 4 @45397 has 30 MA's), (6, 45445), (8, 45499), (9, 45538),

Gene: Bunnies_75 Start: 46598, Stop: 46789, Start Num: 4
Candidate Starts for Bunnies_75:
(2, 46559), (Start: 4 @46598 has 30 MA's), (6, 46646), (8, 46700), (9, 46739),

Gene: CactusJack_74 Start: 46094, Stop: 46285, Start Num: 4
Candidate Starts for CactusJack_74:
(2, 46055), (Start: 4 @46094 has 30 MA's), (8, 46196), (9, 46235),

Gene: Camster_74 Start: 44927, Stop: 45118, Start Num: 4
Candidate Starts for Camster_74:
(2, 44888), (Start: 4 @44927 has 30 MA's), (8, 45029), (9, 45068),

Gene: DillTech15_83 Start: 48088, Stop: 48279, Start Num: 4
Candidate Starts for DillTech15_83:
(2, 48049), (Start: 4 @48088 has 30 MA's), (8, 48190), (9, 48229),

Gene: Donovan_73 Start: 45056, Stop: 45247, Start Num: 4
Candidate Starts for Donovan_73:
(2, 45017), (Start: 4 @45056 has 30 MA's), (8, 45158), (9, 45197),

Gene: Fastidio_74 Start: 44896, Stop: 45087, Start Num: 4
Candidate Starts for Fastidio_74:
(2, 44857), (Start: 4 @44896 has 30 MA's), (8, 44998), (9, 45037),

Gene: FirstPlacePfu_74 Start: 43459, Stop: 43650, Start Num: 4
Candidate Starts for FirstPlacePfu_74:
(2, 43420), (Start: 4 @43459 has 30 MA's), (8, 43561), (9, 43600),

Gene: Fishburne_72 Start: 44882, Stop: 45073, Start Num: 4
Candidate Starts for Fishburne_72:
(2, 44843), (Start: 4 @44882 has 30 MA's), (8, 44984), (9, 45023),

Gene: Glaske_73 Start: 46094, Stop: 46285, Start Num: 4
Candidate Starts for Glaske_73:
(2, 46055), (Start: 4 @46094 has 30 MA's), (8, 46196), (9, 46235),

Gene: HC_64 Start: 41135, Stop: 41290, Start Num: 5
Candidate Starts for HC_64:
(Start: 5 @41135 has 3 MA's), (8, 41201), (9, 41240),

Gene: HC_68 Start: 42138, Stop: 42293, Start Num: 5
Candidate Starts for HC_68:
(Start: 5 @42138 has 3 MA's), (8, 42204), (9, 42243),

Gene: Jebeks_71 Start: 43354, Stop: 43545, Start Num: 4
Candidate Starts for Jebeks_71:
(2, 43315), (Start: 4 @43354 has 30 MA's), (8, 43456), (9, 43495),

Gene: Jung_71 Start: 44375, Stop: 44578, Start Num: 4
Candidate Starts for Jung_71:
(2, 44336), (Start: 4 @44375 has 30 MA's), (8, 44477), (9, 44516),

Gene: Juniormint_69 Start: 43469, Stop: 43660, Start Num: 4
Candidate Starts for Juniormint_69:
(2, 43430), (Start: 4 @43469 has 30 MA's), (8, 43571), (9, 43610),

Gene: Kari_72 Start: 45416, Stop: 45607, Start Num: 4
Candidate Starts for Kari_72:
(2, 45377), (Start: 4 @45416 has 30 MA's), (8, 45518), (9, 45557),

Gene: KilKor_74 Start: 46787, Stop: 46978, Start Num: 4
Candidate Starts for KilKor_74:
(2, 46748), (Start: 4 @46787 has 30 MA's), (8, 46889), (9, 46928),

Gene: Ksquared_74 Start: 46475, Stop: 46666, Start Num: 4
Candidate Starts for Ksquared_74:
(2, 46436), (Start: 4 @46475 has 30 MA's), (6, 46523), (8, 46577), (9, 46616),

Gene: Langerak_72 Start: 44860, Stop: 45051, Start Num: 4
Candidate Starts for Langerak_72:
(2, 44821), (Start: 4 @44860 has 30 MA's), (8, 44962), (9, 45001),

Gene: LittleShirley_82 Start: 48569, Stop: 48760, Start Num: 4
Candidate Starts for LittleShirley_82:
(2, 48530), (Start: 4 @48569 has 30 MA's), (8, 48671), (9, 48710),

Gene: Majeke_76 Start: 45505, Stop: 45696, Start Num: 4
Candidate Starts for Majeke_76:
(2, 45466), (Start: 4 @45505 has 30 MA's), (8, 45607), (9, 45646),

Gene: Malithi_73 Start: 44649, Stop: 44840, Start Num: 4
Candidate Starts for Malithi_73:
(2, 44610), (Start: 4 @44649 has 30 MA's), (8, 44751), (9, 44790),

Gene: Mangethe_76 Start: 45505, Stop: 45696, Start Num: 4
Candidate Starts for Mangethe_76:
(2, 45466), (Start: 4 @45505 has 30 MA's), (8, 45607), (9, 45646),

Gene: Megiddo_73 Start: 46655, Stop: 46846, Start Num: 4
Candidate Starts for Megiddo_73:
(2, 46616), (Start: 4 @46655 has 30 MA's), (8, 46757), (9, 46796),

Gene: Phalm_74 Start: 46085, Stop: 46276, Start Num: 4
Candidate Starts for Phalm_74:
(2, 46046), (Start: 4 @46085 has 30 MA's), (8, 46187), (9, 46226),

Gene: Phegasus_76 Start: 45472, Stop: 45663, Start Num: 4
Candidate Starts for Phegasus_76:
(2, 45433), (Start: 4 @45472 has 30 MA's), (8, 45574), (9, 45613),

Gene: Rem711_79 Start: 48360, Stop: 48572, Start Num: 3

Candidate Starts for Rem711_79:

(2, 48348), (Start: 3 @48360 has 1 MA's), (Start: 4 @48384 has 30 MA's), (7, 48435), (9, 48525),

Gene: Sonah_74 Start: 44194, Stop: 44385, Start Num: 4

Candidate Starts for Sonah_74:

(2, 44155), (Start: 4 @44194 has 30 MA's), (8, 44296), (9, 44335),

Gene: StAnnes_78 Start: 49077, Stop: 49223, Start Num: 4

Candidate Starts for StAnnes_78:

(2, 49038), (Start: 4 @49077 has 30 MA's),

Gene: StevieRay_75 Start: 46631, Stop: 46834, Start Num: 4

Candidate Starts for StevieRay_75:

(1, 46547), (2, 46592), (Start: 4 @46631 has 30 MA's), (8, 46733), (9, 46772),

Gene: StressBall_73 Start: 45787, Stop: 45978, Start Num: 4

Candidate Starts for StressBall_73:

(2, 45748), (Start: 4 @45787 has 30 MA's), (8, 45889), (9, 45928),

Gene: Techage_74 Start: 44988, Stop: 45179, Start Num: 4

Candidate Starts for Techage_74:

(2, 44949), (Start: 4 @44988 has 30 MA's), (8, 45090), (9, 45129),

Gene: Thespis_72 Start: 45397, Stop: 45600, Start Num: 4

Candidate Starts for Thespis_72:

(2, 45358), (Start: 4 @45397 has 30 MA's), (6, 45445), (8, 45499), (9, 45538),

Gene: Totinger_79 Start: 47646, Stop: 47837, Start Num: 4

Candidate Starts for Totinger_79:

(2, 47607), (Start: 4 @47646 has 30 MA's), (8, 47748), (9, 47787),

Gene: Vidya_71 Start: 44395, Stop: 44586, Start Num: 4

Candidate Starts for Vidya_71:

(2, 44356), (Start: 4 @44395 has 30 MA's), (8, 44497), (9, 44536),

Gene: Willsammy_75 Start: 46271, Stop: 46462, Start Num: 4

Candidate Starts for Willsammy_75:

(2, 46232), (Start: 4 @46271 has 30 MA's), (8, 46373), (9, 46412),

Gene: Zilizebeth_78 Start: 45829, Stop: 46020, Start Num: 4

Candidate Starts for Zilizebeth_78:

(2, 45790), (Start: 4 @45829 has 30 MA's), (8, 45931), (9, 45970),

Gene: Zizzle_83 Start: 50631, Stop: 50786, Start Num: 5

Candidate Starts for Zizzle_83:

(Start: 5 @50631 has 3 MA's), (8, 50697), (9, 50736),