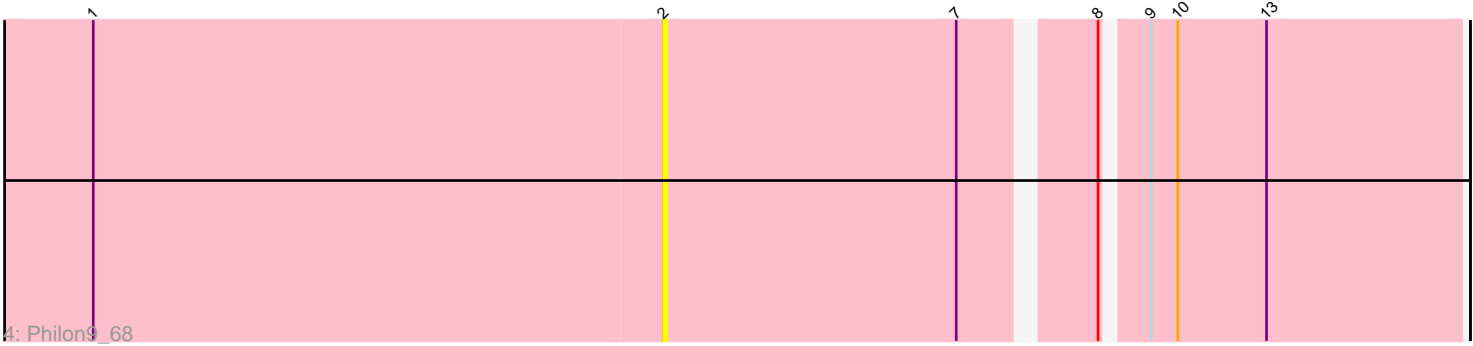
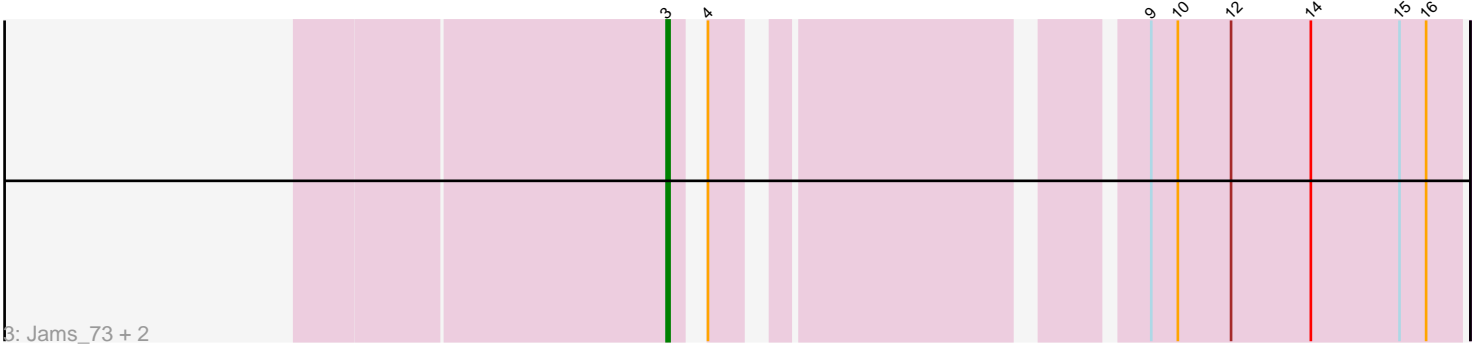
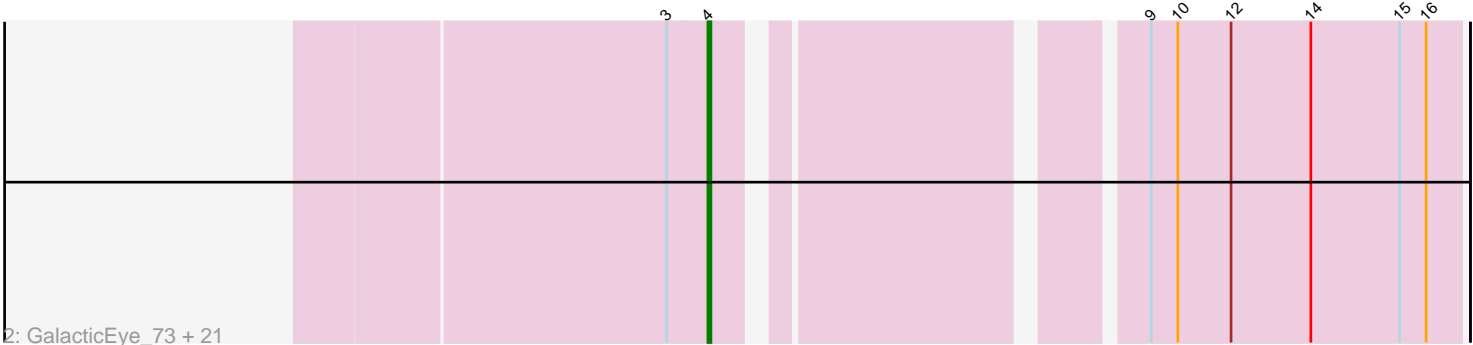
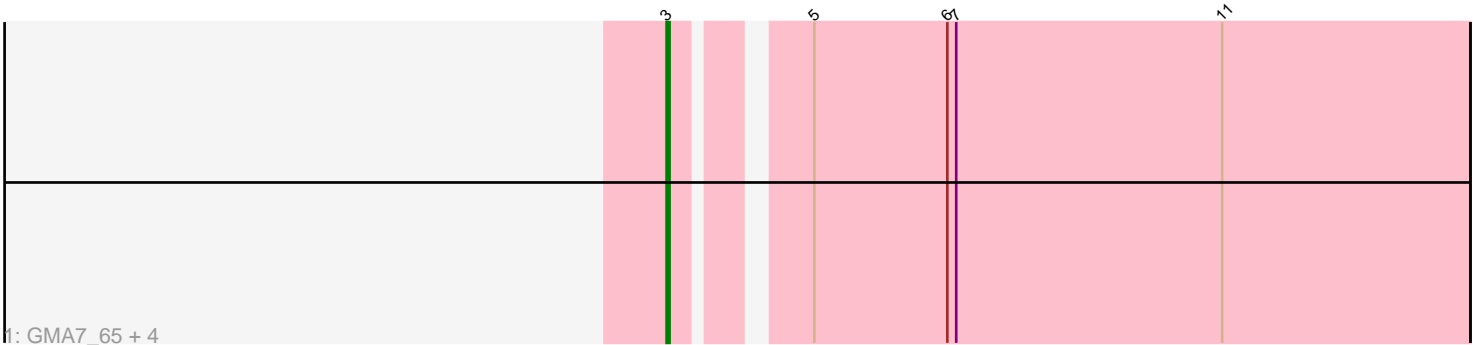


Pham 2938



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 2938 Report

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

Pham number 2938 has 31 members, 8 are drafts.

Phages represented in each track:

- Track 1 : GMA7_65, Austin_75, HayZem_77, Amore2_76, GTE7_64
- Track 2 : GalacticEye_73, Teal_72, Berries_73, Newt_74, Hello_72, MrWormie_73, Harambe_72, Guillaume_72, Anamika_72, Luker_74, Damp_70, Lahirium_72, Hail2Pitt_71, Kaseim_72, Woes_72, Charianelly_72, Neoevie_72, Jormungandr_72, Sticker17_73, Shelley_73, Nimi13_72, Lidong_73
- Track 3 : Jams_73, Bianmat_73, Minos_74
- Track 4 : Philon9_68

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 18 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika_72, Berries_73, Charianelly_72, Damp_70, GalacticEye_73, Guillaume_72, Hail2Pitt_71, Harambe_72, Hello_72, Jormungandr_72, Kaseim_72, Lahirium_72, Lidong_73, Luker_74, MrWormie_73, Neoevie_72, Newt_74, Nimi13_72, Shelley_73, Sticker17_73, Teal_72, Woes_72,

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

- Bianmat_73, Jams_73, Minos_74,

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

- Amore2_76, Austin_75, GMA7_65, GTE7_64, HayZem_77, Philon9_68,

Summary by start number:

Start 2:

- Found in 1 of 31 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Philon9_68 (CS4),

Start 3:

- Found in 30 of 31 (96.8%) of genes in pham
- Manual Annotations of this start: 5 of 23
- Called 26.7% of time when present
- Phage (with cluster) where this start called: Amore2_76 (CS1), Austin_75 (CS1), Bianmat_73 (CS3), GMA7_65 (CS1), GTE7_64 (CS1), HayZem_77 (CS1), Jams_73 (CS3), Minos_74 (CS3),

Start 4:

- Found in 25 of 31 (80.6%) of genes in pham
- Manual Annotations of this start: 18 of 23
- Called 88.0% of time when present
- Phage (with cluster) where this start called: Anamika_72 (CS3), Berries_73 (CS3), Charianelly_72 (CS3), Damp_70 (CS3), GalacticEye_73 (CS3), Guillaume_72 (CS3), Hail2Pitt_71 (CS3), Harambe_72 (CS3), Hello_72 (CS3), Jormungandr_72 (CS3), Kaseim_72 (CS3), Lahirium_72 (CS3), Lidong_73 (CS3), Luker_74 (CS3), MrWormie_73 (CS3), Neoevie_72 (CS3), Newt_74 (CS3), Nimi13_72 (CS3), Shelley_73 (CS3), Sticker17_73 (CS3), Teal_72 (CS3), Woes_72 (CS3),

Summary by clusters:

There are 3 clusters represented in this pham: CS4, CS1, CS3,

Info for manual annotations of cluster CS1:

- Start number 3 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CS3:

- Start number 3 was manually annotated 3 times for cluster CS3.
- Start number 4 was manually annotated 18 times for cluster CS3.

Gene Information:

Gene: Amore2_76 Start: 59588, Stop: 59331, Start Num: 3

Candidate Starts for Amore2_76:

(Start: 3 @59588 has 5 MA's), (5, 59552), (6, 59507), (7, 59504), (11, 59414),

Gene: Anamika_72 Start: 60105, Stop: 59878, Start Num: 4

Candidate Starts for Anamika_72:

(Start: 3 @60111 has 5 MA's), (Start: 4 @60105 has 18 MA's), (9, 59982), (10, 59973), (12, 59955), (14, 59928), (15, 59898), (16, 59889),

Gene: Austin_75 Start: 59586, Stop: 59329, Start Num: 3

Candidate Starts for Austin_75:

(Start: 3 @59586 has 5 MA's), (5, 59550), (6, 59505), (7, 59502), (11, 59412),

Gene: Berries_73 Start: 60077, Stop: 59850, Start Num: 4

Candidate Starts for Berries_73:

(Start: 3 @60083 has 5 MA's), (Start: 4 @60077 has 18 MA's), (9, 59954), (10, 59945), (12, 59927), (14, 59900), (15, 59870), (16, 59861),

Gene: Bianmat_73 Start: 60123, Stop: 59890, Start Num: 3

Candidate Starts for Bianmat_73:

(Start: 3 @60123 has 5 MA's), (Start: 4 @60117 has 18 MA's), (9, 59994), (10, 59985), (12, 59967), (14, 59940), (15, 59910), (16, 59901),

Gene: Charianelly_72 Start: 59827, Stop: 59600, Start Num: 4

Candidate Starts for Charianelly_72:

(Start: 3 @59833 has 5 MA's), (Start: 4 @59827 has 18 MA's), (9, 59704), (10, 59695), (12, 59677), (14, 59650), (15, 59620), (16, 59611),

Gene: Damp_70 Start: 58991, Stop: 58764, Start Num: 4

Candidate Starts for Damp_70:

(Start: 3 @58997 has 5 MA's), (Start: 4 @58991 has 18 MA's), (9, 58868), (10, 58859), (12, 58841), (14, 58814), (15, 58784), (16, 58775),

Gene: GMA7_65 Start: 53802, Stop: 53545, Start Num: 3

Candidate Starts for GMA7_65:

(Start: 3 @53802 has 5 MA's), (5, 53766), (6, 53721), (7, 53718), (11, 53628),

Gene: GTE7_64 Start: 53833, Stop: 53576, Start Num: 3

Candidate Starts for GTE7_64:

(Start: 3 @53833 has 5 MA's), (5, 53797), (6, 53752), (7, 53749), (11, 53659),

Gene: GalacticEye_73 Start: 59788, Stop: 59561, Start Num: 4

Candidate Starts for GalacticEye_73:

(Start: 3 @59794 has 5 MA's), (Start: 4 @59788 has 18 MA's), (9, 59665), (10, 59656), (12, 59638), (14, 59611), (15, 59581), (16, 59572),

Gene: Guillaume_72 Start: 59838, Stop: 59611, Start Num: 4

Candidate Starts for Guillaume_72:

(Start: 3 @59844 has 5 MA's), (Start: 4 @59838 has 18 MA's), (9, 59715), (10, 59706), (12, 59688), (14, 59661), (15, 59631), (16, 59622),

Gene: Hail2Pitt_71 Start: 60314, Stop: 60087, Start Num: 4

Candidate Starts for Hail2Pitt_71:

(Start: 3 @60320 has 5 MA's), (Start: 4 @60314 has 18 MA's), (9, 60191), (10, 60182), (12, 60164), (14, 60137), (15, 60107), (16, 60098),

Gene: Harambe_72 Start: 60105, Stop: 59878, Start Num: 4

Candidate Starts for Harambe_72:

(Start: 3 @60111 has 5 MA's), (Start: 4 @60105 has 18 MA's), (9, 59982), (10, 59973), (12, 59955), (14, 59928), (15, 59898), (16, 59889),

Gene: HayZem_77 Start: 59585, Stop: 59328, Start Num: 3

Candidate Starts for HayZem_77:

(Start: 3 @59585 has 5 MA's), (5, 59549), (6, 59504), (7, 59501), (11, 59411),

Gene: Hello_72 Start: 60067, Stop: 59840, Start Num: 4

Candidate Starts for Hello_72:

(Start: 3 @60073 has 5 MA's), (Start: 4 @60067 has 18 MA's), (9, 59944), (10, 59935), (12, 59917), (14, 59890), (15, 59860), (16, 59851),

Gene: Jams_73 Start: 59283, Stop: 59050, Start Num: 3

Candidate Starts for Jams_73:

(Start: 3 @59283 has 5 MA's), (Start: 4 @59277 has 18 MA's), (9, 59154), (10, 59145), (12, 59127), (14, 59100), (15, 59070), (16, 59061),

Gene: Jormungandr_72 Start: 59820, Stop: 59593, Start Num: 4

Candidate Starts for Jormungandr_72:

(Start: 3 @59826 has 5 MA's), (Start: 4 @59820 has 18 MA's), (9, 59697), (10, 59688), (12, 59670), (14, 59643), (15, 59613), (16, 59604),

Gene: Kaseim_72 Start: 59262, Stop: 59035, Start Num: 4

Candidate Starts for Kaseim_72:

(Start: 3 @59268 has 5 MA's), (Start: 4 @59262 has 18 MA's), (9, 59139), (10, 59130), (12, 59112), (14, 59085), (15, 59055), (16, 59046),

Gene: Lahirium_72 Start: 60342, Stop: 60115, Start Num: 4

Candidate Starts for Lahirium_72:

(Start: 3 @60348 has 5 MA's), (Start: 4 @60342 has 18 MA's), (9, 60219), (10, 60210), (12, 60192), (14, 60165), (15, 60135), (16, 60126),

Gene: Lidong_73 Start: 60077, Stop: 59850, Start Num: 4

Candidate Starts for Lidong_73:

(Start: 3 @60083 has 5 MA's), (Start: 4 @60077 has 18 MA's), (9, 59954), (10, 59945), (12, 59927), (14, 59900), (15, 59870), (16, 59861),

Gene: Luker_74 Start: 60295, Stop: 60068, Start Num: 4

Candidate Starts for Luker_74:

(Start: 3 @60301 has 5 MA's), (Start: 4 @60295 has 18 MA's), (9, 60172), (10, 60163), (12, 60145), (14, 60118), (15, 60088), (16, 60079),

Gene: Minos_74 Start: 59825, Stop: 59592, Start Num: 3

Candidate Starts for Minos_74:

(Start: 3 @59825 has 5 MA's), (Start: 4 @59819 has 18 MA's), (9, 59696), (10, 59687), (12, 59669), (14, 59642), (15, 59612), (16, 59603),

Gene: MrWormie_73 Start: 58980, Stop: 58753, Start Num: 4

Candidate Starts for MrWormie_73:

(Start: 3 @58986 has 5 MA's), (Start: 4 @58980 has 18 MA's), (9, 58857), (10, 58848), (12, 58830), (14, 58803), (15, 58773), (16, 58764),

Gene: Neoevie_72 Start: 60081, Stop: 59854, Start Num: 4

Candidate Starts for Neoevie_72:

(Start: 3 @60087 has 5 MA's), (Start: 4 @60081 has 18 MA's), (9, 59958), (10, 59949), (12, 59931), (14, 59904), (15, 59874), (16, 59865),

Gene: Newt_74 Start: 60309, Stop: 60082, Start Num: 4

Candidate Starts for Newt_74:

(Start: 3 @60315 has 5 MA's), (Start: 4 @60309 has 18 MA's), (9, 60186), (10, 60177), (12, 60159), (14, 60132), (15, 60102), (16, 60093),

Gene: Nimi13_72 Start: 59828, Stop: 59601, Start Num: 4

Candidate Starts for Nimi13_72:

(Start: 3 @59834 has 5 MA's), (Start: 4 @59828 has 18 MA's), (9, 59705), (10, 59696), (12, 59678), (14, 59651), (15, 59621), (16, 59612),

Gene: Philon9_68 Start: 60726, Stop: 60472, Start Num: 2

Candidate Starts for Philon9_68:

(1, 60918), (2, 60726), (7, 60627), (8, 60588), (9, 60576), (10, 60567), (13, 60537),

Gene: Shelley_73 Start: 59304, Stop: 59077, Start Num: 4

Candidate Starts for Shelley_73:

(Start: 3 @59310 has 5 MA's), (Start: 4 @59304 has 18 MA's), (9, 59181), (10, 59172), (12, 59154), (14, 59127), (15, 59097), (16, 59088),

Gene: Sticker17_73 Start: 59792, Stop: 59565, Start Num: 4

Candidate Starts for Sticker17_73:

(Start: 3 @59798 has 5 MA's), (Start: 4 @59792 has 18 MA's), (9, 59669), (10, 59660), (12, 59642), (14, 59615), (15, 59585), (16, 59576),

Gene: Teal_72 Start: 60286, Stop: 60059, Start Num: 4

Candidate Starts for Teal_72:

(Start: 3 @60292 has 5 MA's), (Start: 4 @60286 has 18 MA's), (9, 60163), (10, 60154), (12, 60136), (14, 60109), (15, 60079), (16, 60070),

Gene: Woes_72 Start: 60337, Stop: 60110, Start Num: 4

Candidate Starts for Woes_72:

(Start: 3 @60343 has 5 MA's), (Start: 4 @60337 has 18 MA's), (9, 60214), (10, 60205), (12, 60187), (14, 60160), (15, 60130), (16, 60121),