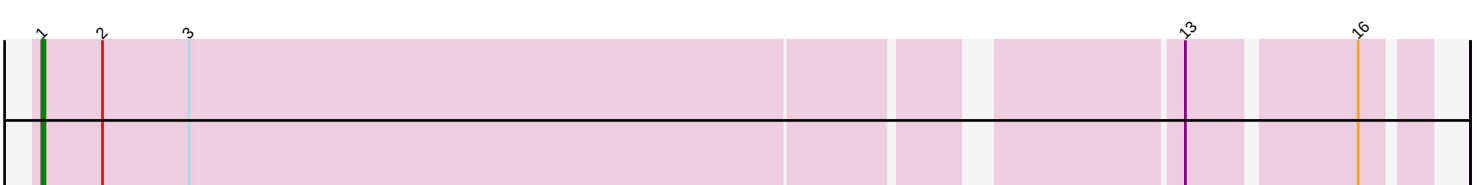
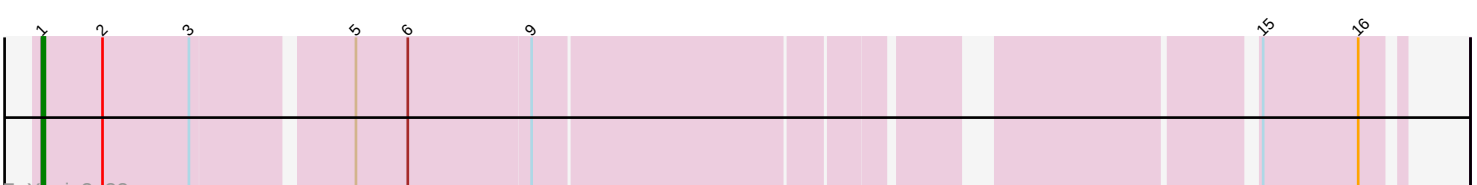
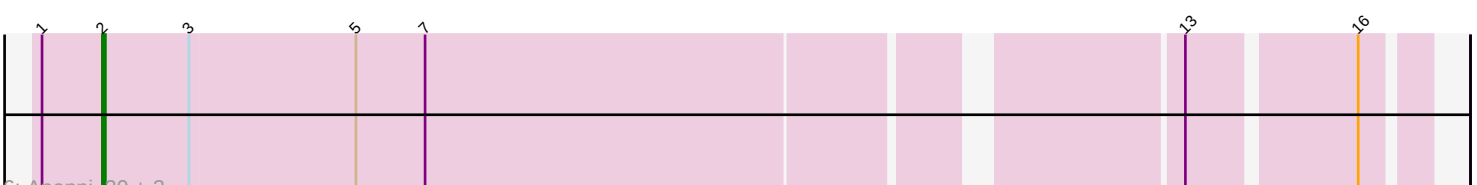
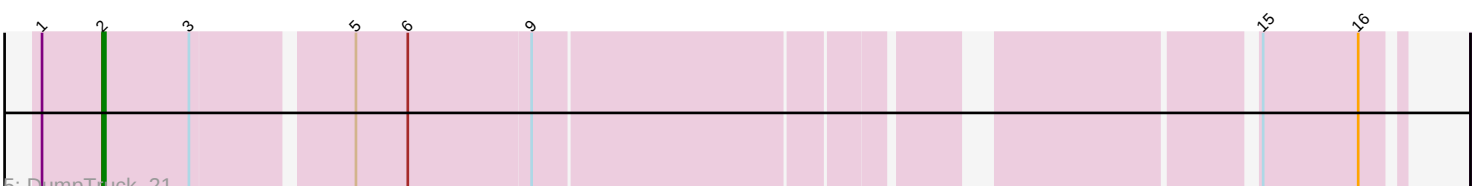
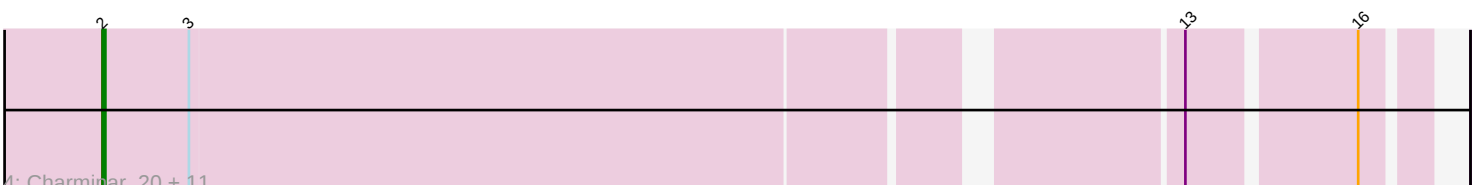
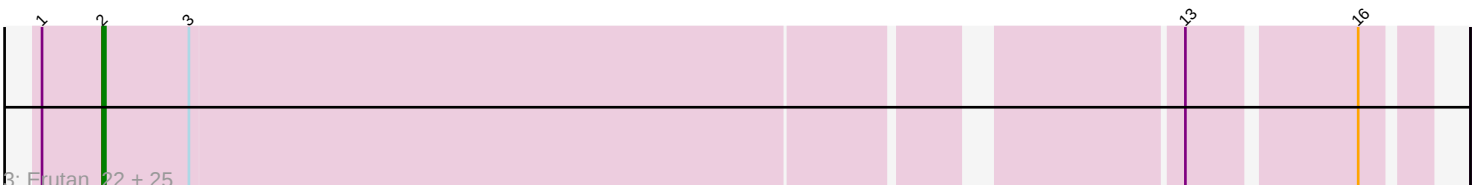
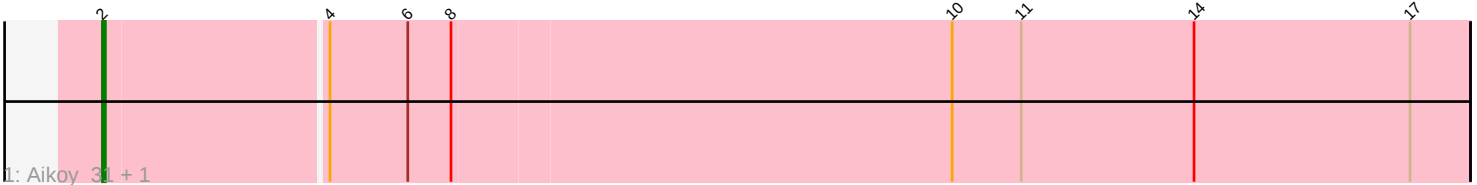


Pham 327170



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 327170 Report

This analysis was run 09/05/26 on database version 662.

Pham number 327170 has 48 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Aikoy_31, Leopard_31
- Track 2 : Onyinye_32
- Track 3 : Erutan_22, Gibbin_23, GretellYn_22, Rukungu_22, LavAbarElk_20, ParvusTarda_22, BirthdayBoy_23, Lila22_22, Pywacket_21, GOATification_23, Sadboi_22, Zany_21, Sampudon_22, MoiGyank_24, Yikes_23, Ranch_22, Patos_23, OtterstedtS21_22, NorManre_23, DoobyDoo_21, Rota_21, Mima20_21, Alephilan_20, Nettle_21, DaviePasture_22, Fulcrum_23
- Track 4 : Charminar_20, Alyssamiracle_21, Riduram_20, Avian_20, Genamy16_21, Lambo_22, NovaSharks_21, Jamemuya19_20, Rumi_21, Stormer_20, Astralis_20, RazorC_20
- Track 5 : DumpTruck_21
- Track 6 : Apeppi_20, Wojtek_21, LuckyLeo_21, Tillicus_22
- Track 7 : Xenia2_22
- Track 8 : Jalebi_22

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

The start number called the most often in the published annotations is 2, it was called in 41 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikoy_31, Alephilan_20, Alyssamiracle_21, Apeppi_20, Astralis_20, Avian_20, BirthdayBoy_23, Charminar_20, DaviePasture_22, DoobyDoo_21, DumpTruck_21, Erutan_22, Fulcrum_23, GOATification_23, Genamy16_21, Gibbin_23, GretellYn_22, Jamemuya19_20, Lambo_22, LavAbarElk_20, Leopard_31, Lila22_22, LuckyLeo_21, Mima20_21, MoiGyank_24, Nettle_21, NorManre_23, NovaSharks_21, Onyinye_32, OtterstedtS21_22, ParvusTarda_22, Patos_23, Pywacket_21, Ranch_22, RazorC_20, Riduram_20, Rota_21, Rukungu_22, Rumi_21, Sadboi_22, Sampudon_22, Stormer_20, Tillicus_22, Wojtek_21, Yikes_23, Zany_21,

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

- Jalebi_22, Xenia2_22,

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

•

Summary by start number:

Start 1:

- Found in 33 of 48 (68.8%) of genes in pham
- Manual Annotations of this start: 2 of 43
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Jalebi_22 (DV), Xenia2_22 (DV),

Start 2:

- Found in 48 of 48 (100.0%) of genes in pham
- Manual Annotations of this start: 41 of 43
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Aikoy_31 (AE), Alephilan_20 (DV), Alyssamiracle_21 (DV), Apeppi_20 (DV), Astralis_20 (DV), Avian_20 (DV), BirthdayBoy_23 (DV), Charminar_20 (DV), DaviePasture_22 (DV), DoobyDoo_21 (DV), DumpTruck_21 (DV), Erutan_22 (DV), Fulcrum_23 (DV), GOATification_23 (DV), Genamy16_21 (DV), Gibbin_23 (DV), GretelLyn_22 (DV), Jamemuya19_20 (DV), Lambo_22 (DV), LavAbarElk_20 (DV), Leopard_31 (AE), Lila22_22 (DV), LuckyLeo_21 (DV), Mima20_21 (DV), MoiGyank_24 (DV), Nettle_21 (DV), NorManre_23 (DV), NovaSharks_21 (DV), Onyinye_32 (AE), OtterstedtS21_22 (DV), ParvusTarda_22 (DV), Patos_23 (DV), Pywacket_21 (DV), Ranch_22 (DV), RazorC_20 (DV), Riduram_20 (DV), Rota_21 (DV), Rukungu_22 (DV), Rumi_21 (DV), Sadboi_22 (DV), Sampudon_22 (DV), Stormer_20 (DV), Tillicus_22 (DV), Wojtek_21 (DV), Yikes_23 (DV), Zany_21 (DV),

Summary by clusters:

There are 2 clusters represented in this pham: DV, AE,

Info for manual annotations of cluster AE:

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

Info for manual annotations of cluster DV:

- Start number 1 was manually annotated 2 times for cluster DV.
- Start number 2 was manually annotated 38 times for cluster DV.

Gene Information:

Gene: Aikoy_31 Start: 19455, Stop: 19922, Start Num: 2

Candidate Starts for Aikoy_31:

(Start: 2 @19455 has 41 MA's), (4, 19530), (6, 19557), (8, 19572), (10, 19743), (11, 19767), (14, 19827), (17, 19902),

Gene: Alephilan_20 Start: 14429, Stop: 14857, Start Num: 2

Candidate Starts for Alephilan_20:

(Start: 1 @14408 has 2 MA's), (Start: 2 @14429 has 41 MA's), (3, 14459), (13, 14783), (16, 14837),

Gene: Alyssamiracle_21 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Alyssamiracle_21:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Apeppi_20 Start: 14551, Stop: 14979, Start Num: 2

Candidate Starts for Apeppi_20:

(Start: 1 @14530 has 2 MA's), (Start: 2 @14551 has 41 MA's), (3, 14581), (5, 14638), (7, 14662), (13, 14905), (16, 14959),

Gene: Astralis_20 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Astralis_20:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Avian_20 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Avian_20:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: BirthdayBoy_23 Start: 15282, Stop: 15710, Start Num: 2

Candidate Starts for BirthdayBoy_23:

(Start: 1 @15261 has 2 MA's), (Start: 2 @15282 has 41 MA's), (3, 15312), (13, 15636), (16, 15690),

Gene: Charminar_20 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Charminar_20:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: DaviePasture_22 Start: 15039, Stop: 15467, Start Num: 2

Candidate Starts for DaviePasture_22:

(Start: 1 @15018 has 2 MA's), (Start: 2 @15039 has 41 MA's), (3, 15069), (13, 15393), (16, 15447),

Gene: DoobyDoo_21 Start: 14216, Stop: 14644, Start Num: 2

Candidate Starts for DoobyDoo_21:

(Start: 1 @14195 has 2 MA's), (Start: 2 @14216 has 41 MA's), (3, 14246), (13, 14570), (16, 14624),

Gene: DumpTruck_21 Start: 14470, Stop: 14877, Start Num: 2

Candidate Starts for DumpTruck_21:

(Start: 1 @14449 has 2 MA's), (Start: 2 @14470 has 41 MA's), (3, 14500), (5, 14551), (6, 14569), (9, 14611), (15, 14833), (16, 14866),

Gene: Erutan_22 Start: 14729, Stop: 15157, Start Num: 2

Candidate Starts for Erutan_22:

(Start: 1 @14708 has 2 MA's), (Start: 2 @14729 has 41 MA's), (3, 14759), (13, 15083), (16, 15137),

Gene: Fulcrum_23 Start: 15262, Stop: 15690, Start Num: 2

Candidate Starts for Fulcrum_23:

(Start: 1 @15241 has 2 MA's), (Start: 2 @15262 has 41 MA's), (3, 15292), (13, 15616), (16, 15670),

Gene: GOATification_23 Start: 15262, Stop: 15690, Start Num: 2

Candidate Starts for GOATification_23:

(Start: 1 @15241 has 2 MA's), (Start: 2 @15262 has 41 MA's), (3, 15292), (13, 15616), (16, 15670),

Gene: Genamy16_21 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Genamy16_21:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Gibbin_23 Start: 15322, Stop: 15750, Start Num: 2

Candidate Starts for Gibbin_23:

(Start: 1 @15301 has 2 MA's), (Start: 2 @15322 has 41 MA's), (3, 15352), (13, 15676), (16, 15730),

Gene: Gretellyn_22 Start: 15596, Stop: 16024, Start Num: 2

Candidate Starts for Gretellyn_22:

(Start: 1 @15575 has 2 MA's), (Start: 2 @15596 has 41 MA's), (3, 15626), (13, 15950), (16, 16004),

Gene: Jalebi_22 Start: 15751, Stop: 16200, Start Num: 1

Candidate Starts for Jalebi_22:

(Start: 1 @15751 has 2 MA's), (Start: 2 @15772 has 41 MA's), (3, 15802), (13, 16126), (16, 16180),

Gene: Jamemuya19_20 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Jamemuya19_20:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Lambo_22 Start: 15265, Stop: 15693, Start Num: 2

Candidate Starts for Lambo_22:

(Start: 2 @15265 has 41 MA's), (3, 15295), (13, 15619), (16, 15673),

Gene: LavAbarElk_20 Start: 13699, Stop: 14127, Start Num: 2

Candidate Starts for LavAbarElk_20:

(Start: 1 @13678 has 2 MA's), (Start: 2 @13699 has 41 MA's), (3, 13729), (13, 14053), (16, 14107),

Gene: Leopard_31 Start: 19740, Stop: 20210, Start Num: 2

Candidate Starts for Leopard_31:

(Start: 2 @19740 has 41 MA's), (4, 19818), (6, 19845), (8, 19860), (10, 20031), (11, 20055), (14, 20115), (17, 20190),

Gene: Lila22_22 Start: 15220, Stop: 15648, Start Num: 2

Candidate Starts for Lila22_22:

(Start: 1 @15199 has 2 MA's), (Start: 2 @15220 has 41 MA's), (3, 15250), (13, 15574), (16, 15628),

Gene: LuckyLeo_21 Start: 14551, Stop: 14979, Start Num: 2

Candidate Starts for LuckyLeo_21:

(Start: 1 @14530 has 2 MA's), (Start: 2 @14551 has 41 MA's), (3, 14581), (5, 14638), (7, 14662), (13, 14905), (16, 14959),

Gene: Mima20_21 Start: 14949, Stop: 15377, Start Num: 2

Candidate Starts for Mima20_21:

(Start: 1 @14928 has 2 MA's), (Start: 2 @14949 has 41 MA's), (3, 14979), (13, 15303), (16, 15357),

Gene: MoiGyank_24 Start: 15633, Stop: 16061, Start Num: 2

Candidate Starts for MoiGyank_24:

(Start: 1 @15612 has 2 MA's), (Start: 2 @15633 has 41 MA's), (3, 15663), (13, 15987), (16, 16041),

Gene: Nettle_21 Start: 15496, Stop: 15924, Start Num: 2

Candidate Starts for Nettle_21:

(Start: 1 @15475 has 2 MA's), (Start: 2 @15496 has 41 MA's), (3, 15526), (13, 15850), (16, 15904),

Gene: NorManre_23 Start: 14828, Stop: 15256, Start Num: 2

Candidate Starts for NorManre_23:

(Start: 1 @14807 has 2 MA's), (Start: 2 @14828 has 41 MA's), (3, 14858), (13, 15182), (16, 15236),

Gene: NovaSharks_21 Start: 12835, Stop: 13263, Start Num: 2
Candidate Starts for NovaSharks_21:
(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Onyinye_32 Start: 19621, Stop: 20088, Start Num: 2
Candidate Starts for Onyinye_32:
(Start: 2 @19621 has 41 MA's), (4, 19696), (6, 19723), (8, 19738), (10, 19909), (11, 19933), (12, 19936), (14, 19993), (17, 20068),

Gene: OtterstedtS21_22 Start: 14918, Stop: 15346, Start Num: 2
Candidate Starts for OtterstedtS21_22:
(Start: 1 @14897 has 2 MA's), (Start: 2 @14918 has 41 MA's), (3, 14948), (13, 15272), (16, 15326),

Gene: ParvusTarda_22 Start: 14400, Stop: 14828, Start Num: 2
Candidate Starts for ParvusTarda_22:
(Start: 1 @14379 has 2 MA's), (Start: 2 @14400 has 41 MA's), (3, 14430), (13, 14754), (16, 14808),

Gene: Patos_23 Start: 14828, Stop: 15256, Start Num: 2
Candidate Starts for Patos_23:
(Start: 1 @14807 has 2 MA's), (Start: 2 @14828 has 41 MA's), (3, 14858), (13, 15182), (16, 15236),

Gene: Pywacket_21 Start: 15757, Stop: 16185, Start Num: 2
Candidate Starts for Pywacket_21:
(Start: 1 @15736 has 2 MA's), (Start: 2 @15757 has 41 MA's), (3, 15787), (13, 16111), (16, 16165),

Gene: Ranch_22 Start: 13766, Stop: 14194, Start Num: 2
Candidate Starts for Ranch_22:
(Start: 1 @13745 has 2 MA's), (Start: 2 @13766 has 41 MA's), (3, 13796), (13, 14120), (16, 14174),

Gene: RazorC_20 Start: 12835, Stop: 13263, Start Num: 2
Candidate Starts for RazorC_20:
(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Riduram_20 Start: 12805, Stop: 13233, Start Num: 2
Candidate Starts for Riduram_20:
(Start: 2 @12805 has 41 MA's), (3, 12835), (13, 13159), (16, 13213),

Gene: Rota_21 Start: 14724, Stop: 15152, Start Num: 2
Candidate Starts for Rota_21:
(Start: 1 @14703 has 2 MA's), (Start: 2 @14724 has 41 MA's), (3, 14754), (13, 15078), (16, 15132),

Gene: Rukungu_22 Start: 15465, Stop: 15893, Start Num: 2
Candidate Starts for Rukungu_22:
(Start: 1 @15444 has 2 MA's), (Start: 2 @15465 has 41 MA's), (3, 15495), (13, 15819), (16, 15873),

Gene: Rumi_21 Start: 12835, Stop: 13263, Start Num: 2
Candidate Starts for Rumi_21:
(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Sadboi_22 Start: 15596, Stop: 16024, Start Num: 2
Candidate Starts for Sadboi_22:
(Start: 1 @15575 has 2 MA's), (Start: 2 @15596 has 41 MA's), (3, 15626), (13, 15950), (16, 16004),

Gene: Sampudon_22 Start: 15772, Stop: 16200, Start Num: 2

Candidate Starts for Sampudon_22:

(Start: 1 @15751 has 2 MA's), (Start: 2 @15772 has 41 MA's), (3, 15802), (13, 16126), (16, 16180),

Gene: Stormer_20 Start: 12835, Stop: 13263, Start Num: 2

Candidate Starts for Stormer_20:

(Start: 2 @12835 has 41 MA's), (3, 12865), (13, 13189), (16, 13243),

Gene: Tillicus_22 Start: 14145, Stop: 14573, Start Num: 2

Candidate Starts for Tillicus_22:

(Start: 1 @14124 has 2 MA's), (Start: 2 @14145 has 41 MA's), (3, 14175), (5, 14232), (7, 14256), (13, 14499), (16, 14553),

Gene: Wojtek_21 Start: 14473, Stop: 14901, Start Num: 2

Candidate Starts for Wojtek_21:

(Start: 1 @14452 has 2 MA's), (Start: 2 @14473 has 41 MA's), (3, 14503), (5, 14560), (7, 14584), (13, 14827), (16, 14881),

Gene: Xenia2_22 Start: 14491, Stop: 14919, Start Num: 1

Candidate Starts for Xenia2_22:

(Start: 1 @14491 has 2 MA's), (Start: 2 @14512 has 41 MA's), (3, 14542), (5, 14593), (6, 14611), (9, 14653), (15, 14875), (16, 14908),

Gene: Yikes_23 Start: 15857, Stop: 16285, Start Num: 2

Candidate Starts for Yikes_23:

(Start: 1 @15836 has 2 MA's), (Start: 2 @15857 has 41 MA's), (3, 15887), (13, 16211), (16, 16265),

Gene: Zany_21 Start: 14986, Stop: 15414, Start Num: 2

Candidate Starts for Zany_21:

(Start: 1 @14965 has 2 MA's), (Start: 2 @14986 has 41 MA's), (3, 15016), (13, 15340), (16, 15394),