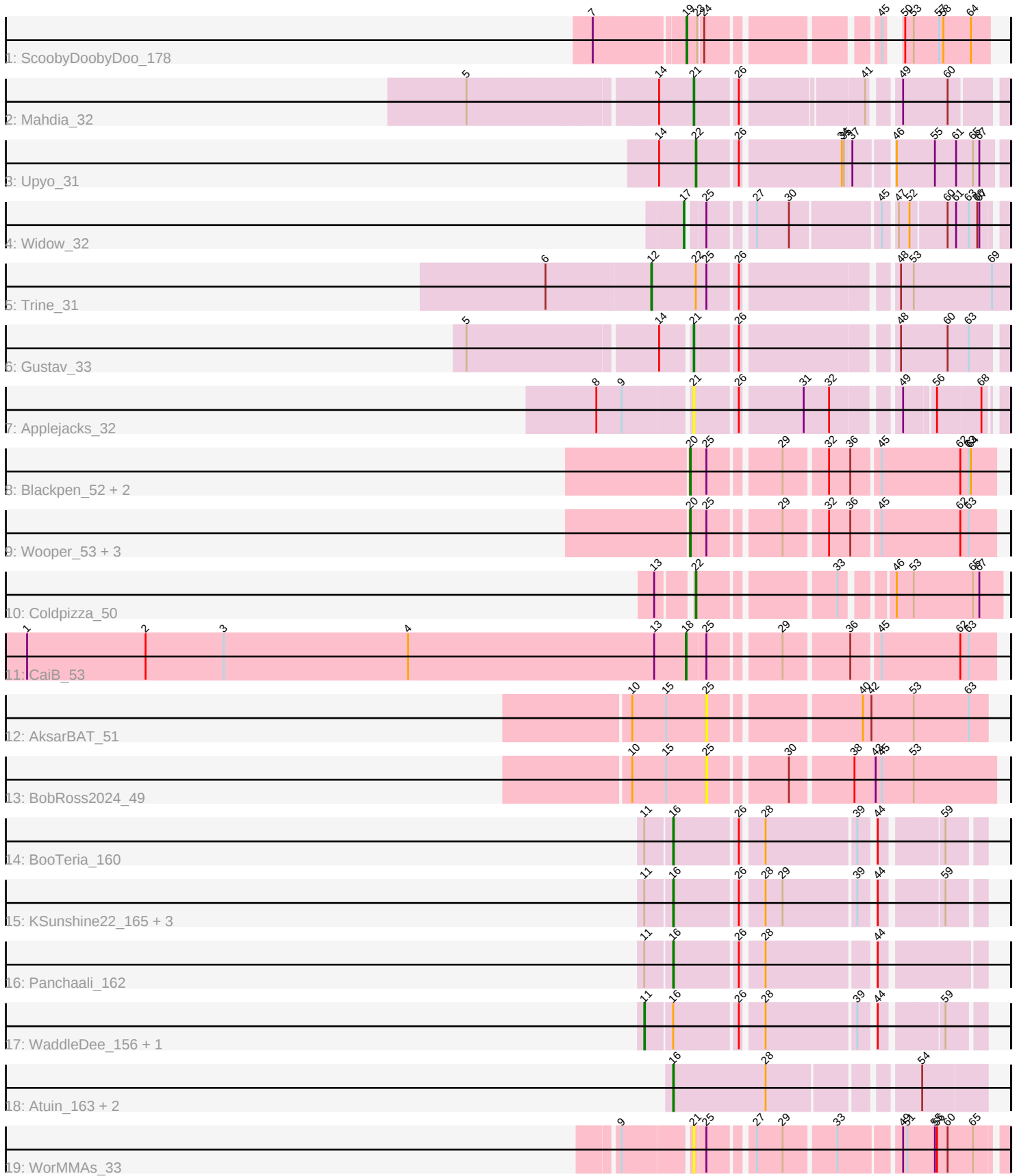


Pham 315800



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 315800 Report

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

Pham number 315800 has 30 members, 11 are drafts.

Phages represented in each track:

- Track 1 : ScoobyDoobyDoo_178
- Track 2 : Mahdia_32
- Track 3 : Upyo_31
- Track 4 : Widow_32
- Track 5 : Trine_31
- Track 6 : Gustav_33
- Track 7 : Applejacks_32
- Track 8 : Blackpen_52, CloverMinnie_52, FelixTres_52
- Track 9 : Wooper_53, MossRose_52, TraderJ_53, Yeshua_53
- Track 10 : Coldpizza_50
- Track 11 : CaiB_53
- Track 12 : AksarBAT_51
- Track 13 : BobRoss2024_49
- Track 14 : BooTeria_160
- Track 15 : KSunshine22_165, DunneganBoMo_160, Artu_162, Emmetator_163
- Track 16 : Panchaali_162
- Track 17 : WaddleDee_156, Ellewin_160
- Track 18 : Atuin_163, ReginaGlobina_176, LeoJr_172
- Track 19 : WorMMAs_33

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

The start number called the most often in the published annotations is 20, it was called in 5 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blackpen_52, CloverMinnie_52, FelixTres_52, MossRose_52, TraderJ_53, Wooper_53, Yeshua_53,

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

-

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

• AksarBAT_51, Applejacks_32, Artu_162, Atuin_163, BobRoss2024_49, BooTeria_160, CaiB_53, Coldpizza_50, DunneganBoMo_160, Ellewin_160, Emmetator_163, Gustav_33, KSunshine22_165, LeoJr_172, Mahdia_32, Panchaali_162, ReginaGlobina_176, ScoobyDoobyDoo_178, Trine_31, Upyo_31, WaddleDee_156, Widow_32, WorMMAs_33,

Summary by start number:

Start 11:

- Found in 8 of 30 (26.7%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Ellewin_160 (FC), WaddleDee_156 (FC),

Start 12:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trine_31 (CD),

Start 16:

- Found in 11 of 30 (36.7%) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Artu_162 (FC), Atuin_163 (FC), BooTeria_160 (FC), DunneganBoMo_160 (FC), Emmetator_163 (FC), KSunshine22_165 (FC), LeoJr_172 (FC), Panchaali_162 (FC), ReginaGlobina_176 (FC),

Start 17:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Widow_32 (CD),

Start 18:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CaiB_53 (DR),

Start 19:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_178 (C2),

Start 20:

- Found in 7 of 30 (23.3%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Blackpen_52 (DR), CloverMinnie_52 (DR), FelixTres_52 (DR), MossRose_52 (DR), TraderJ_53 (DR), Wooper_53 (DR), Yeshua_53 (DR),

Start 21:

- Found in 4 of 30 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_32 (CD), Gustav_33 (CD), Mahdia_32 (CD), WorMMAs_33 (UNK),

Start 22:

- Found in 3 of 30 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Coldpizza_50 (DR), Upyo_31 (CD),

Start 25:

- Found in 13 of 30 (43.3%) of genes in pham
- No Manual Annotations of this start.
- Called 15.4% of time when present
- Phage (with cluster) where this start called: AksarBAT_51 (DR), BobRoss2024_49 (DR),

Summary by clusters:

There are 5 clusters represented in this pham: C2, UNK, FC, DR, CD,

Info for manual annotations of cluster C2:

- Start number 19 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CD:

- Start number 12 was manually annotated 1 time for cluster CD.
- Start number 17 was manually annotated 1 time for cluster CD.
- Start number 21 was manually annotated 2 times for cluster CD.
- Start number 22 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:

- Start number 18 was manually annotated 1 time for cluster DR.
- Start number 20 was manually annotated 5 times for cluster DR.
- Start number 22 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster FC:

- Start number 11 was manually annotated 2 times for cluster FC.
- Start number 16 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: AksarBAT_51 Start: 44810, Stop: 44442, Start Num: 25

Candidate Starts for AksarBAT_51:

(10, 44915), (15, 44867), (25, 44810), (40, 44615), (42, 44606), (53, 44546), (63, 44468),

Gene: Applejacks_32 Start: 24819, Stop: 24442, Start Num: 21

Candidate Starts for Applejacks_32:

(8, 24942), (9, 24906), (Start: 21 @24819 has 2 MA's), (26, 24762), (31, 24681), (32, 24645), (49, 24564), (56, 24525), (68, 24465),

Gene: Artu_162 Start: 110968, Stop: 111345, Start Num: 16

Candidate Starts for Artu_162:

(Start: 11 @110932 has 2 MA's), (Start: 16 @110968 has 4 MA's), (26, 111052), (28, 111079), (29, 111103), (39, 111202), (44, 111220), (59, 111295),

Gene: Atuin_163 Start: 113494, Stop: 113901, Start Num: 16

Candidate Starts for Atuin_163:

(Start: 16 @113494 has 4 MA's), (28, 113623), (54, 113812),

Gene: Blackpen_52 Start: 45239, Stop: 44847, Start Num: 20

Candidate Starts for Blackpen_52:

(Start: 20 @45239 has 5 MA's), (25, 45221), (29, 45131), (32, 45074), (36, 45044), (45, 45008), (62, 44897), (63, 44885), (64, 44882),

Gene: BobRoss2024_49 Start: 43873, Stop: 43490, Start Num: 25

Candidate Starts for BobRoss2024_49:

(10, 43978), (15, 43930), (25, 43873), (30, 43774), (38, 43690), (43, 43660), (45, 43651), (53, 43606),

Gene: BooTeria_160 Start: 111135, Stop: 111512, Start Num: 16

Candidate Starts for BooTeria_160:

(Start: 11 @111099 has 2 MA's), (Start: 16 @111135 has 4 MA's), (26, 111219), (28, 111246), (39, 111369), (44, 111387), (59, 111462),

Gene: CaiB_53 Start: 46692, Stop: 46294, Start Num: 18

Candidate Starts for CaiB_53:

(1, 47625), (2, 47457), (3, 47346), (4, 47085), (13, 46737), (Start: 18 @46692 has 1 MA's), (25, 46668), (29, 46578), (36, 46491), (45, 46455), (62, 46344), (63, 46332),

Gene: CloverMinnie_52 Start: 45747, Stop: 45355, Start Num: 20

Candidate Starts for CloverMinnie_52:

(Start: 20 @45747 has 5 MA's), (25, 45729), (29, 45639), (32, 45582), (36, 45552), (45, 45516), (62, 45405), (63, 45393), (64, 45390),

Gene: Coldpizza_50 Start: 46742, Stop: 46362, Start Num: 22

Candidate Starts for Coldpizza_50:

(13, 46784), (Start: 22 @46742 has 2 MA's), (33, 46568), (46, 46511), (53, 46487), (65, 46403), (67, 46394),

Gene: DunneganBoMo_160 Start: 110317, Stop: 110694, Start Num: 16

Candidate Starts for DunneganBoMo_160:

(Start: 11 @110281 has 2 MA's), (Start: 16 @110317 has 4 MA's), (26, 110401), (28, 110428), (29, 110452), (39, 110551), (44, 110569), (59, 110644),

Gene: Ellewin_160 Start: 110388, Stop: 110801, Start Num: 11

Candidate Starts for Ellewin_160:

(Start: 11 @110388 has 2 MA's), (Start: 16 @110424 has 4 MA's), (26, 110508), (28, 110535), (39, 110658), (44, 110676), (59, 110751),

Gene: Emmetator_163 Start: 110633, Stop: 111010, Start Num: 16

Candidate Starts for Emmetator_163:

(Start: 11 @110597 has 2 MA's), (Start: 16 @110633 has 4 MA's), (26, 110717), (28, 110744), (29, 110768), (39, 110867), (44, 110885), (59, 110960),

Gene: FelixTres_52 Start: 45785, Stop: 45393, Start Num: 20

Candidate Starts for FelixTres_52:

(Start: 20 @45785 has 5 MA's), (25, 45767), (29, 45677), (32, 45620), (36, 45590), (45, 45554), (62, 45443), (63, 45431), (64, 45428),

Gene: Gustav_33 Start: 25688, Stop: 25296, Start Num: 21

Candidate Starts for Gustav_33:

(5, 25976), (14, 25727), (Start: 21 @25688 has 2 MA's), (26, 25634), (48, 25439), (60, 25373), (63, 25343),

Gene: KSunshine22_165 Start: 111380, Stop: 111757, Start Num: 16

Candidate Starts for KSunshine22_165:

(Start: 11 @111344 has 2 MA's), (Start: 16 @111380 has 4 MA's), (26, 111464), (28, 111491), (29, 111515), (39, 111614), (44, 111632), (59, 111707),

Gene: LeoJr_172 Start: 114114, Stop: 114521, Start Num: 16

Candidate Starts for LeoJr_172:

(Start: 16 @114114 has 4 MA's), (28, 114243), (54, 114432),

Gene: Mahdia_32 Start: 24869, Stop: 24492, Start Num: 21

Candidate Starts for Mahdia_32:

(5, 25166), (14, 24917), (Start: 21 @24869 has 2 MA's), (26, 24812), (41, 24656), (49, 24623), (60, 24560),

Gene: MossRose_52 Start: 45804, Stop: 45412, Start Num: 20

Candidate Starts for MossRose_52:

(Start: 20 @45804 has 5 MA's), (25, 45786), (29, 45696), (32, 45639), (36, 45609), (45, 45573), (62, 45462), (63, 45450),

Gene: Panchaali_162 Start: 111232, Stop: 111618, Start Num: 16

Candidate Starts for Panchaali_162:

(Start: 11 @111196 has 2 MA's), (Start: 16 @111232 has 4 MA's), (26, 111316), (28, 111343), (44, 111484),

Gene: ReginaGlobina_176 Start: 115387, Stop: 115794, Start Num: 16

Candidate Starts for ReginaGlobina_176:

(Start: 16 @115387 has 4 MA's), (28, 115516), (54, 115705),

Gene: ScoobyDoobyDoo_178 Start: 98579, Stop: 98932, Start Num: 19

Candidate Starts for ScoobyDoobyDoo_178:

(7, 98456), (Start: 19 @98579 has 1 MA's), (23, 98594), (24, 98600), (45, 98804), (50, 98813), (53, 98825), (57, 98861), (58, 98867), (64, 98906),

Gene: TraderJ_53 Start: 46127, Stop: 45735, Start Num: 20

Candidate Starts for TraderJ_53:

(Start: 20 @46127 has 5 MA's), (25, 46109), (29, 46019), (32, 45962), (36, 45932), (45, 45896), (62, 45785), (63, 45773),

Gene: Trine_31 Start: 25044, Stop: 24577, Start Num: 12

Candidate Starts for Trine_31:

(6, 25191), (Start: 12 @25044 has 1 MA's), (Start: 22 @24981 has 2 MA's), (25, 24966), (26, 24927), (48, 24732), (53, 24714), (69, 24603),

Gene: Upyo_31 Start: 25589, Stop: 25188, Start Num: 22

Candidate Starts for Upyo_31:

(14, 25640), (Start: 22 @25589 has 2 MA's), (26, 25535), (34, 25400), (35, 25397), (37, 25388), (46, 25340), (55, 25286), (61, 25256), (65, 25232), (67, 25223),

Gene: WaddleDee_156 Start: 109554, Stop: 109967, Start Num: 11

Candidate Starts for WaddleDee_156:

(Start: 11 @109554 has 2 MA's), (Start: 16 @109590 has 4 MA's), (26, 109674), (28, 109701), (39, 109824), (44, 109842), (59, 109917),

Gene: Widow_32 Start: 25169, Stop: 24783, Start Num: 17

Candidate Starts for Widow_32:

(Start: 17 @25169 has 1 MA's), (25, 25151), (27, 25097), (30, 25052), (45, 24935), (47, 24920), (52, 24905), (60, 24857), (61, 24845), (63, 24827), (66, 24815), (67, 24812),

Gene: Wooper_53 Start: 46136, Stop: 45744, Start Num: 20

Candidate Starts for Wooper_53:

(Start: 20 @46136 has 5 MA's), (25, 46118), (29, 46028), (32, 45971), (36, 45941), (45, 45905), (62, 45794), (63, 45782),

Gene: WorMMAs_33 Start: 24796, Stop: 24407, Start Num: 21

Candidate Starts for WorMMAs_33:

(9, 24883), (Start: 21 @24796 has 2 MA's), (25, 24781), (27, 24727), (29, 24691), (33, 24622), (49, 24544), (51, 24538), (55, 24499), (56, 24496), (60, 24481), (65, 24445),

Gene: Yeshua_53 Start: 46113, Stop: 45721, Start Num: 20

Candidate Starts for Yeshua_53:

(Start: 20 @46113 has 5 MA's), (25, 46095), (29, 46005), (32, 45948), (36, 45918), (45, 45882), (62, 45771), (63, 45759),