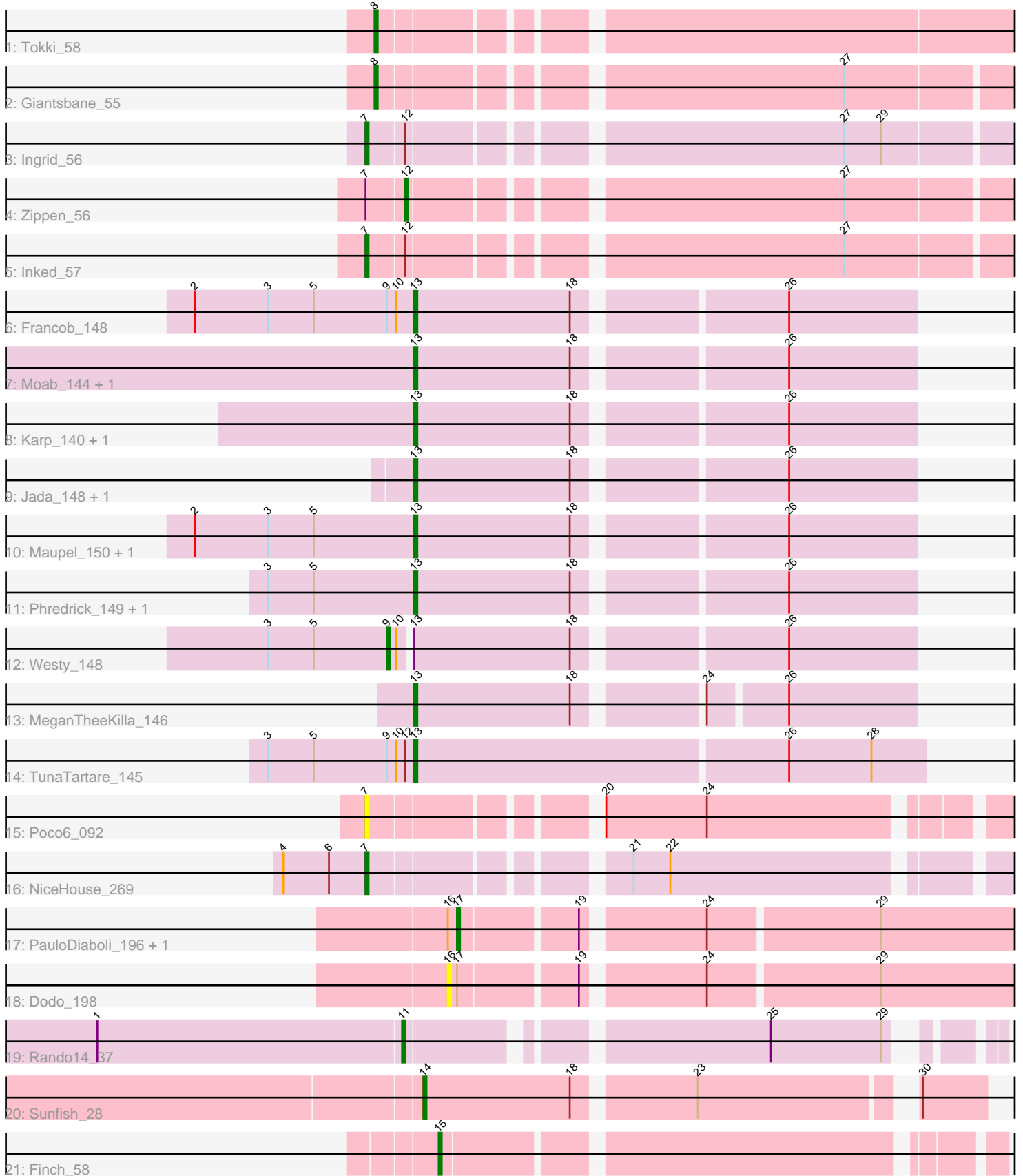


Pham 296845



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 296845 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296845 has 27 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Tokki_58
- Track 2 : Giantsbane_55
- Track 3 : Ingrid_56
- Track 4 : Zippen_56
- Track 5 : Inked_57
- Track 6 : Francob_148
- Track 7 : Moab_144, Patelgo_146
- Track 8 : Karp_140, Belfort_145
- Track 9 : Jada_148, DeluluLabubu_152
- Track 10 : Maupel_150, Emma1919_150
- Track 11 : Phredrick_149, Kenrey_152
- Track 12 : Westy_148
- Track 13 : MeganTheeKilla_146
- Track 14 : TunaTartare_145
- Track 15 : Poco6_092
- Track 16 : NiceHouse_269
- Track 17 : PauloDiaboli_196, A3Wally_197
- Track 18 : Dodo_198
- Track 19 : Rando14_37
- Track 20 : Sunfish_28
- Track 21 : Finch_58

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

The start number called the most often in the published annotations is 13, it was called in 12 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_145, DeluluLabubu_152, Emma1919_150, Francob_148, Jada_148, Karp_140, Kenrey_152, Maupel_150, MeganTheeKilla_146, Moab_144, Patelgo_146, Phredrick_149, TunaTartare_145,

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

- Westy_148,

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

- A3Wally_197, Dodo_198, Finch_58, Giantsbane_55, Ingrid_56, Inked_57, NiceHouse_269, PauloDiaboli_196, Poco6_092, Rando14_37, Sunfish_28, Tokki_58, Zippen_56,

Summary by start number:

Start 7:

- Found in 5 of 27 (18.5%) of genes in pham
- Manual Annotations of this start: 3 of 24
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Ingrid_56 (AU3), Inked_57 (AU7), NiceHouse_269 (CE), Poco6_092 (CC),

Start 8:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Giantsbane_55 (AU2), Tokki_58 (AU2),

Start 9:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Westy_148 (BK1),

Start 11:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rando14_37 (K5),

Start 12:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Zippen_56 (AU7),

Start 13:

- Found in 14 of 27 (51.9%) of genes in pham
- Manual Annotations of this start: 12 of 24
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Belfort_145 (BK1), DeluluLabubu_152 (BK1), Emma1919_150 (BK1), Francob_148 (BK1), Jada_148 (BK1), Karp_140 (BK1), Kenrey_152 (BK1), Maupel_150 (BK1), MeganTheeKilla_146 (BK1), Moab_144 (BK1), Patelgo_146 (BK1), Phredrick_149 (BK1), TunaTartare_145 (BK1),

Start 14:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunfish_28 (singleton),

Start 15:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_58 (singleton),

Start 16:

- Found in 3 of 27 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dodo_198 (GD1),

Start 17:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 24
- Called 66.7% of time when present
- Phage (with cluster) where this start called: A3Wally_197 (GD1), PauloDiaboli_196 (GD1),

Summary by clusters:

There are 9 clusters represented in this pham: GD1, singleton, AU7, CC, CE, AU3, AU2, BK1, K5,

Info for manual annotations of cluster AU2:

- Start number 8 was manually annotated 2 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 7 was manually annotated 1 time for cluster AU3.

Info for manual annotations of cluster AU7:

- Start number 7 was manually annotated 1 time for cluster AU7.
- Start number 12 was manually annotated 1 time for cluster AU7.

Info for manual annotations of cluster BK1:

- Start number 9 was manually annotated 1 time for cluster BK1.
- Start number 13 was manually annotated 12 times for cluster BK1.

Info for manual annotations of cluster CE:

- Start number 7 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster GD1:

- Start number 17 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster K5:

- Start number 11 was manually annotated 1 time for cluster K5.

Gene Information:

Gene: A3Wally_197 Start: 109106, Stop: 109285, Start Num: 17
Candidate Starts for A3Wally_197:
(16, 109103), (Start: 17 @109106 has 2 MA's), (19, 109142), (24, 109178), (29, 109232),

Gene: Belfort_145 Start: 82737, Stop: 82892, Start Num: 13
Candidate Starts for Belfort_145:
(Start: 13 @82737 has 12 MA's), (18, 82788), (26, 82851),

Gene: DeluluLabubu_152 Start: 83559, Stop: 83717, Start Num: 13
Candidate Starts for DeluluLabubu_152:
(Start: 13 @83559 has 12 MA's), (18, 83610), (26, 83673),

Gene: Dodo_198 Start: 108714, Stop: 108896, Start Num: 16
Candidate Starts for Dodo_198:
(16, 108714), (Start: 17 @108717 has 2 MA's), (19, 108753), (24, 108789), (29, 108843),

Gene: Emma1919_150 Start: 82354, Stop: 82509, Start Num: 13
Candidate Starts for Emma1919_150:
(2, 82285), (3, 82309), (5, 82324), (Start: 13 @82354 has 12 MA's), (18, 82405), (26, 82468),

Gene: Finch_58 Start: 47919, Stop: 48083, Start Num: 15
Candidate Starts for Finch_58:
(Start: 15 @47919 has 1 MA's),

Gene: Francob_148 Start: 82862, Stop: 83017, Start Num: 13
Candidate Starts for Francob_148:
(2, 82793), (3, 82817), (5, 82832), (Start: 9 @82856 has 1 MA's), (10, 82859), (Start: 13 @82862 has 12 MA's), (18, 82913), (26, 82976),

Gene: Giantsbane_55 Start: 36034, Stop: 36225, Start Num: 8
Candidate Starts for Giantsbane_55:
(Start: 8 @36034 has 2 MA's), (27, 36172),

Gene: Ingrid_56 Start: 36844, Stop: 37038, Start Num: 7
Candidate Starts for Ingrid_56:
(Start: 7 @36844 has 3 MA's), (Start: 12 @36856 has 1 MA's), (27, 36985), (29, 36997),

Gene: Inked_57 Start: 37966, Stop: 38160, Start Num: 7
Candidate Starts for Inked_57:
(Start: 7 @37966 has 3 MA's), (Start: 12 @37978 has 1 MA's), (27, 38107),

Gene: Jada_148 Start: 82145, Stop: 82300, Start Num: 13
Candidate Starts for Jada_148:
(Start: 13 @82145 has 12 MA's), (18, 82196), (26, 82259),

Gene: Karp_140 Start: 82164, Stop: 82319, Start Num: 13
Candidate Starts for Karp_140:
(Start: 13 @82164 has 12 MA's), (18, 82215), (26, 82278),

Gene: Kenrey_152 Start: 83476, Stop: 83631, Start Num: 13
Candidate Starts for Kenrey_152:
(3, 83431), (5, 83446), (Start: 13 @83476 has 12 MA's), (18, 83527), (26, 83590),

Gene: Maupel_150 Start: 82316, Stop: 82471, Start Num: 13
Candidate Starts for Maupel_150:
(2, 82247), (3, 82271), (5, 82286), (Start: 13 @82316 has 12 MA's), (18, 82367), (26, 82430),

Gene: MeganTheeKilla_146 Start: 81670, Stop: 81822, Start Num: 13
Candidate Starts for MeganTheeKilla_146:
(Start: 13 @81670 has 12 MA's), (18, 81721), (24, 81757), (26, 81781),

Gene: Moab_144 Start: 83836, Stop: 83991, Start Num: 13
Candidate Starts for Moab_144:
(Start: 13 @83836 has 12 MA's), (18, 83887), (26, 83950),

Gene: NiceHouse_269 Start: 134061, Stop: 134252, Start Num: 7
Candidate Starts for NiceHouse_269:
(4, 134034), (6, 134049), (Start: 7 @134061 has 3 MA's), (21, 134133), (22, 134145),

Gene: Patelgo_146 Start: 84528, Stop: 84683, Start Num: 13
Candidate Starts for Patelgo_146:
(Start: 13 @84528 has 12 MA's), (18, 84579), (26, 84642),

Gene: PauloDiaboli_196 Start: 107152, Stop: 107331, Start Num: 17
Candidate Starts for PauloDiaboli_196:
(16, 107149), (Start: 17 @107152 has 2 MA's), (19, 107188), (24, 107224), (29, 107278),

Gene: Phredrick_149 Start: 81811, Stop: 81966, Start Num: 13
Candidate Starts for Phredrick_149:
(3, 81766), (5, 81781), (Start: 13 @81811 has 12 MA's), (18, 81862), (26, 81925),

Gene: Poco6_092 Start: 48067, Stop: 48252, Start Num: 7
Candidate Starts for Poco6_092:
(Start: 7 @48067 has 3 MA's), (20, 48130), (24, 48163),

Gene: Rando14_37 Start: 29193, Stop: 29357, Start Num: 11
Candidate Starts for Rando14_37:
(1, 29094), (Start: 11 @29193 has 1 MA's), (25, 29298), (29, 29334),

Gene: Sunfish_28 Start: 13980, Stop: 14147, Start Num: 14
Candidate Starts for Sunfish_28:
(Start: 14 @13980 has 1 MA's), (18, 14028), (23, 14064), (30, 14127),

Gene: Tokki_58 Start: 37146, Stop: 37340, Start Num: 8
Candidate Starts for Tokki_58:
(Start: 8 @37146 has 2 MA's),

Gene: TunaTartare_145 Start: 84538, Stop: 84702, Start Num: 13
Candidate Starts for TunaTartare_145:
(3, 84490), (5, 84505), (Start: 9 @84529 has 1 MA's), (10, 84532), (Start: 12 @84535 has 1 MA's),
(Start: 13 @84538 has 12 MA's), (26, 84658), (28, 84685),

Gene: Westy_148 Start: 83690, Stop: 83851, Start Num: 9
Candidate Starts for Westy_148:
(3, 83651), (5, 83666), (Start: 9 @83690 has 1 MA's), (10, 83693), (Start: 13 @83696 has 12 MA's),
(18, 83747), (26, 83810),

Gene: Zippen_56 Start: 37678, Stop: 37860, Start Num: 12

Candidate Starts for Zippen_56:

(Start: 7 @37666 has 3 MA's), (Start: 12 @37678 has 1 MA's), (27, 37807),