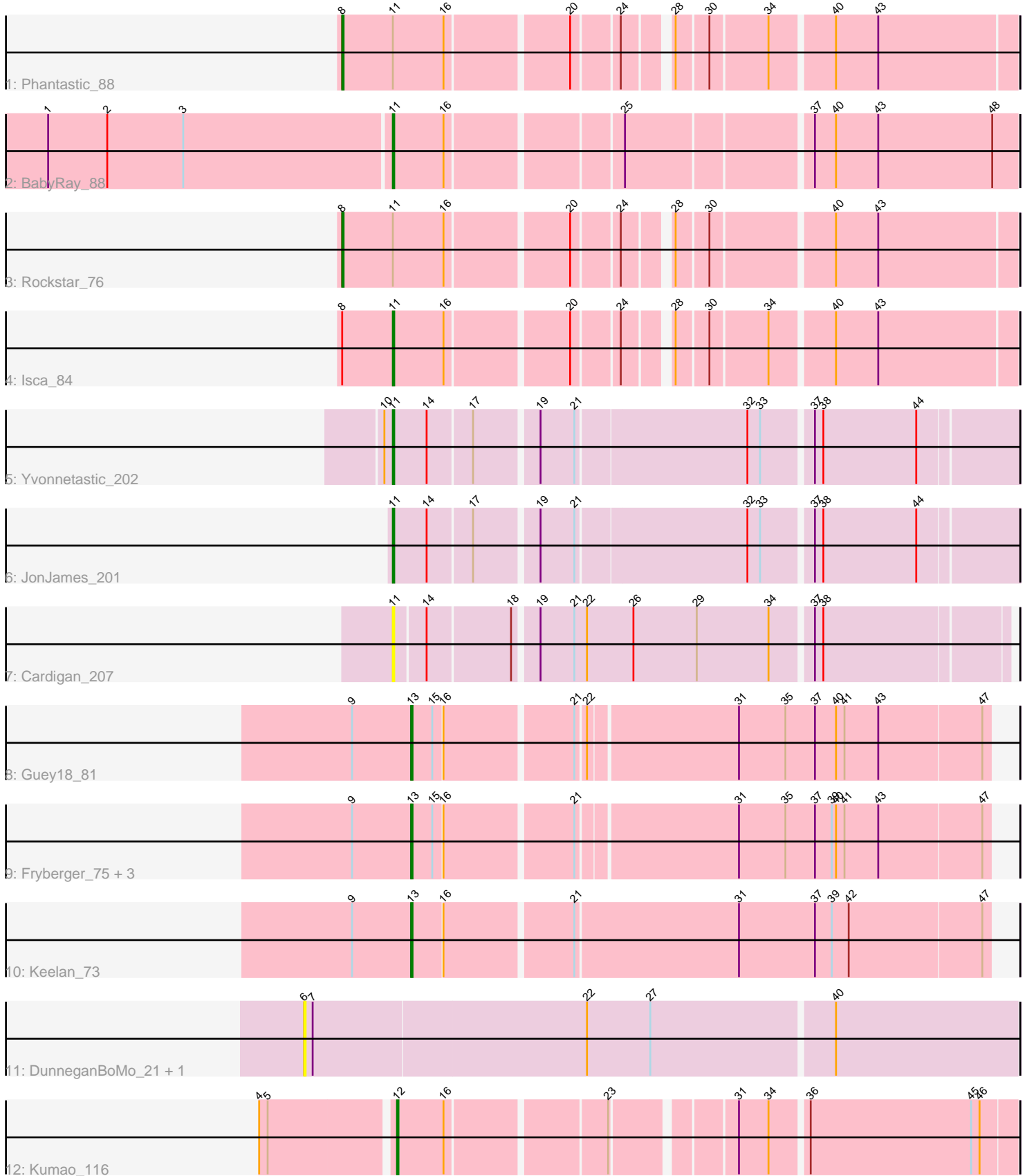


Pham 158242



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 158242 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158242 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Phantastic_88
- Track 2 : BabyRay_88
- Track 3 : Rockstar_76
- Track 4 : Isca_84
- Track 5 : Yvonnetastic_202
- Track 6 : JonJames_201
- Track 7 : Cardigan_207
- Track 8 : Guey18_81
- Track 9 : Fryberger_75, Volt_79, Ziko_79, Ronaldo_79
- Track 10 : Keelan_73
- Track 11 : DunneganBoMo_21, DunneganBoMo_324
- Track 12 : Kumao_116

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 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fryberger_75, Guey18_81, Keelan_73, Ronaldo_79, Volt_79, Ziko_79,

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

-

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

- BabyRay_88, Cardigan_207, DunneganBoMo_21, DunneganBoMo_324, Isca_84, JonJames_201, Kumao_116, Phantastic_88, Rockstar_76, Yvonnetastic_202,

Summary by start number:

Start 6:

- Found in 2 of 16 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: DunneganBoMo_21 (FC), DunneganBoMo_324 (FC),

Start 8:

- Found in 3 of 16 (18.8%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phantastic_88 (A3), Rockstar_76 (A3),

Start 11:

- Found in 7 of 16 (43.8%) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 71.4% of time when present
- Phage (with cluster) where this start called: BabyRay_88 (A3), Cardigan_207 (DD), Isca_84 (A3), JonJames_201 (DD), Yvonnestic_202 (DD),

Start 12:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_116 (singleton),

Start 13:

- Found in 6 of 16 (37.5%) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_75 (DP), Guey18_81 (DP), Keelan_73 (DP), Ronaldo_79 (DP), Volt_79 (DP), Ziko_79 (DP),

Summary by clusters:

There are 5 clusters represented in this pham: DD, FC, A3, DP, singleton,

Info for manual annotations of cluster A3:

- Start number 8 was manually annotated 2 times for cluster A3.
- Start number 11 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster DD:

- Start number 11 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DP:

- Start number 13 was manually annotated 6 times for cluster DP.

Gene Information:

Gene: BabyRay_88 Start: 48407, Stop: 47991, Start Num: 11

Candidate Starts for BabyRay_88:

(1, 48647), (2, 48605), (3, 48551), (Start: 11 @48407 has 4 MA's), (16, 48371), (25, 48257), (37, 48134), (40, 48119), (43, 48089), (48, 48008),

Gene: Cardigan_207 Start: 98477, Stop: 98064, Start Num: 11

Candidate Starts for Cardigan_207:

(Start: 11 @98477 has 4 MA's), (14, 98456), (18, 98399), (19, 98384), (21, 98360), (22, 98351), (26, 98318), (29, 98273), (34, 98222), (37, 98195), (38, 98189),

Gene: DunneganBoMo_21 Start: 8362, Stop: 8859, Start Num: 6

Candidate Starts for DunneganBoMo_21:

(6, 8362), (7, 8368), (22, 8560), (27, 8605), (40, 8731),

Gene: DunneganBoMo_324 Start: 187774, Stop: 188271, Start Num: 6

Candidate Starts for DunneganBoMo_324:

(6, 187774), (7, 187780), (22, 187972), (27, 188017), (40, 188143),

Gene: Fryberger_75 Start: 40522, Stop: 40130, Start Num: 13

Candidate Starts for Fryberger_75:

(9, 40564), (Start: 13 @40522 has 6 MA's), (15, 40507), (16, 40501), (21, 40414), (31, 40306), (35, 40273), (37, 40252), (39, 40240), (40, 40237), (41, 40231), (43, 40207), (47, 40135),

Gene: Guey18_81 Start: 41893, Stop: 41501, Start Num: 13

Candidate Starts for Guey18_81:

(9, 41935), (Start: 13 @41893 has 6 MA's), (15, 41878), (16, 41872), (21, 41785), (22, 41779), (31, 41677), (35, 41644), (37, 41623), (40, 41608), (41, 41602), (43, 41578), (47, 41506),

Gene: Isca_84 Start: 47705, Stop: 47304, Start Num: 11

Candidate Starts for Isca_84:

(Start: 8 @47741 has 2 MA's), (Start: 11 @47705 has 4 MA's), (16, 47669), (20, 47588), (24, 47558), (28, 47531), (30, 47510), (34, 47471), (40, 47429), (43, 47399),

Gene: JonJames_201 Start: 99038, Stop: 98619, Start Num: 11

Candidate Starts for JonJames_201:

(Start: 11 @99038 has 4 MA's), (14, 99014), (17, 98984), (19, 98942), (21, 98918), (32, 98801), (33, 98792), (37, 98759), (38, 98753), (44, 98687),

Gene: Keelan_73 Start: 40361, Stop: 39963, Start Num: 13

Candidate Starts for Keelan_73:

(9, 40403), (Start: 13 @40361 has 6 MA's), (16, 40340), (21, 40253), (31, 40139), (37, 40085), (39, 40073), (42, 40061), (47, 39968),

Gene: Kumao_116 Start: 68785, Stop: 68384, Start Num: 12

Candidate Starts for Kumao_116:

(4, 68875), (5, 68869), (Start: 12 @68785 has 1 MA's), (16, 68752), (23, 68647), (31, 68572), (34, 68551), (36, 68527), (45, 68413), (46, 68407),

Gene: Phantastic_88 Start: 47859, Stop: 47422, Start Num: 8

Candidate Starts for Phantastic_88:

(Start: 8 @47859 has 2 MA's), (Start: 11 @47823 has 4 MA's), (16, 47787), (20, 47706), (24, 47676), (28, 47649), (30, 47628), (34, 47589), (40, 47547), (43, 47517),

Gene: Rockstar_76 Start: 45549, Stop: 45112, Start Num: 8

Candidate Starts for Rockstar_76:

(Start: 8 @45549 has 2 MA's), (Start: 11 @45513 has 4 MA's), (16, 45477), (20, 45396), (24, 45366), (28, 45339), (30, 45318), (40, 45237), (43, 45207),

Gene: Ronaldo_79 Start: 41666, Stop: 41274, Start Num: 13

Candidate Starts for Ronaldo_79:

(9, 41708), (Start: 13 @41666 has 6 MA's), (15, 41651), (16, 41645), (21, 41558), (31, 41450), (35, 41417), (37, 41396), (39, 41384), (40, 41381), (41, 41375), (43, 41351), (47, 41279),

Gene: Volt_79 Start: 41830, Stop: 41438, Start Num: 13

Candidate Starts for Volt_79:

(9, 41872), (Start: 13 @41830 has 6 MA's), (15, 41815), (16, 41809), (21, 41722), (31, 41614), (35, 41581), (37, 41560), (39, 41548), (40, 41545), (41, 41539), (43, 41515), (47, 41443),

Gene: Yvonnetastic_202 Start: 96089, Stop: 95670, Start Num: 11

Candidate Starts for Yvonnetastic_202:

(10, 96095), (Start: 11 @96089 has 4 MA's), (14, 96065), (17, 96035), (19, 95993), (21, 95969), (32, 95852), (33, 95843), (37, 95810), (38, 95804), (44, 95738),

Gene: Ziko_79 Start: 41652, Stop: 41260, Start Num: 13

Candidate Starts for Ziko_79:

(9, 41694), (Start: 13 @41652 has 6 MA's), (15, 41637), (16, 41631), (21, 41544), (31, 41436), (35, 41403), (37, 41382), (39, 41370), (40, 41367), (41, 41361), (43, 41337), (47, 41265),