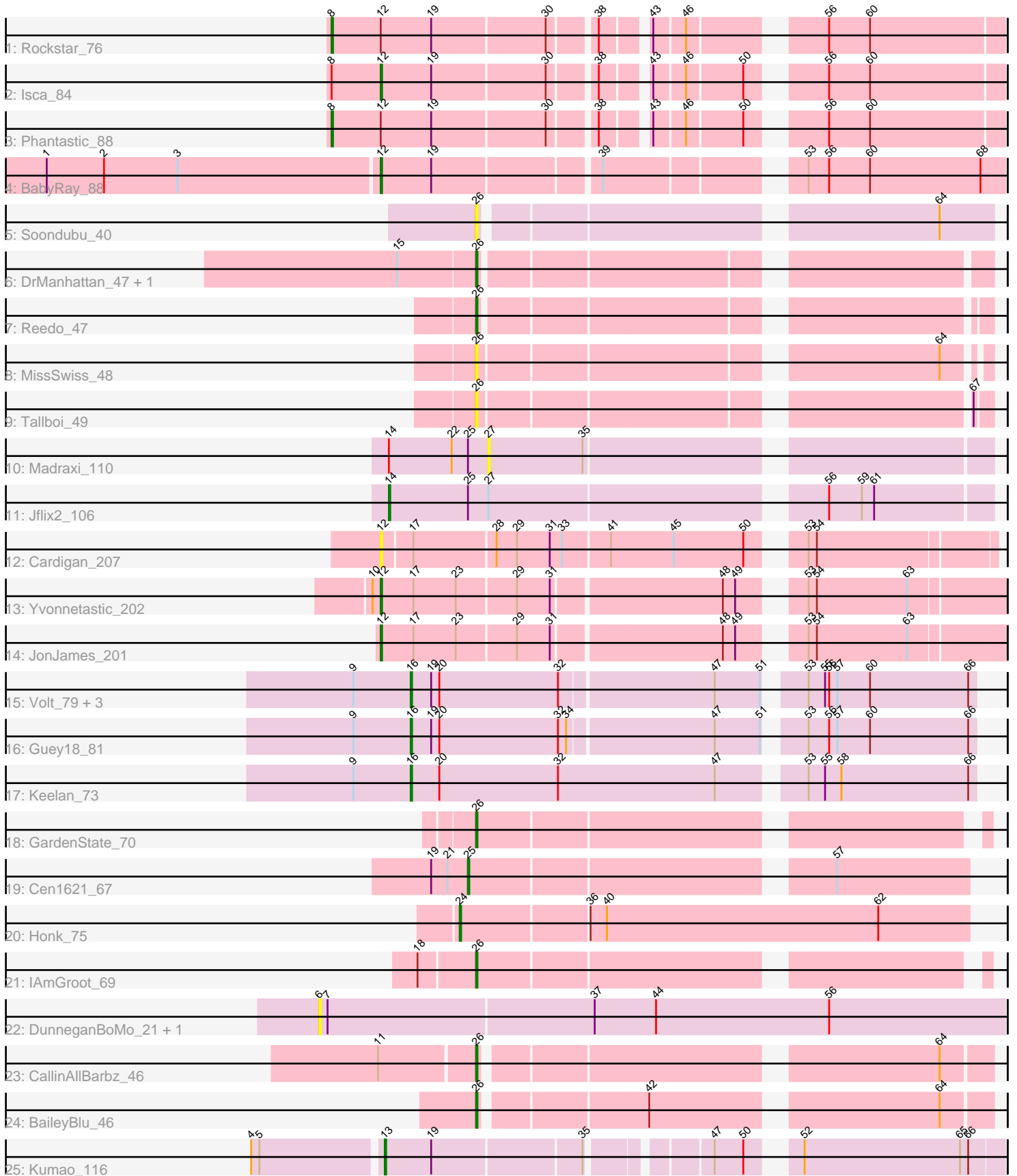


# Pham 163835



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 163835 Report

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

Pham number 163835 has 30 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Rockstar\_76
- Track 2 : Isca\_84
- Track 3 : Phantastic\_88
- Track 4 : BabyRay\_88
- Track 5 : Soondubu\_40
- Track 6 : DrManhattan\_47, Adolin\_48
- Track 7 : Reedo\_47
- Track 8 : MissSwiss\_48
- Track 9 : Tallboi\_49
- Track 10 : Madraxi\_110
- Track 11 : Jflix2\_106
- Track 12 : Cardigan\_207
- Track 13 : Yvonnetastic\_202
- Track 14 : JonJames\_201
- Track 15 : Volt\_79, Ronaldo\_79, Ziko\_79, Fryberger\_75
- Track 16 : Guey18\_81
- Track 17 : Keelan\_73
- Track 18 : GardenState\_70
- Track 19 : Cen1621\_67
- Track 20 : Honk\_75
- Track 21 : IAmGroot\_69
- Track 22 : DunneganBoMo\_21, DunneganBoMo\_324
- Track 23 : CallinAllBarbz\_46
- Track 24 : BaileyBlu\_46
- Track 25 : 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 26, it was called in 7 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adolin\_48, BaileyBlu\_46, CallinAllBarbz\_46, DrManhattan\_47, GardenState\_70, IAmGroot\_69, MissSwiss\_48, Reedo\_47, Soondubu\_40, Tallboi\_49,

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, Cen1621\_67, DunneganBoMo\_21, DunneganBoMo\_324, Fryberger\_75, Guey18\_81, Honk\_75, Isca\_84, Jflic2\_106, JonJames\_201, Keelan\_73, Kumao\_116, Madraxi\_110, Phantastic\_88, Rockstar\_76, Ronaldo\_79, Volt\_79, Yvonnetastic\_202, Ziko\_79,

### Summary by start number:

Start 6:

- Found in 2 of 30 ( 6.7% ) 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 30 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phantastic\_88 (A3), Rockstar\_76 (A3),

Start 12:

- Found in 7 of 30 ( 23.3% ) of genes in pham
- Manual Annotations of this start: 4 of 23
- 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), Yvonnetastic\_202 (DD),

Start 13:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao\_116 (singleton),

Start 14:

- Found in 2 of 30 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Jflic2\_106 (CF),

Start 16:

- Found in 6 of 30 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 6 of 23
- 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),

Start 24:

- Found in 1 of 30 ( 3.3% ) of genes in pham

- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk\_75 (EH),

Start 25:

- Found in 3 of 30 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Cen1621\_67 (EH),

Start 26:

- Found in 10 of 30 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 7 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin\_48 (AZ1), BaileyBlu\_46 (FP), CallinAllBarbz\_46 (FP), DrManhattan\_47 (AZ1), GardenState\_70 (EH), IAmGroot\_69 (EH), MissSwiss\_48 (AZ1), Reedo\_47 (AZ1), Soondubu\_40 (AZ), Tallboi\_49 (AZ1),

Start 27:

- Found in 2 of 30 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Madraxi\_110 (CF),

### **Summary by clusters:**

There are 10 clusters represented in this pham: FP, singleton, EH, DD, CF, A3, FC, AZ1, AZ, DP,

Info for manual annotations of cluster A3:

- Start number 8 was manually annotated 2 times for cluster A3.
- Start number 12 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster AZ1:

- Start number 26 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster CF:

- Start number 14 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster DD:

- Start number 12 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DP:

- Start number 16 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster EH:

- Start number 24 was manually annotated 1 time for cluster EH.
- Start number 25 was manually annotated 1 time for cluster EH.
- Start number 26 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster FP:

- Start number 26 was manually annotated 2 times for cluster FP.

**Gene Information:**

Gene: Adolin\_48 Start: 33121, Stop: 33456, Start Num: 26

Candidate Starts for Adolin\_48:

(15, 33067), (Start: 26 @33121 has 7 MA's),

Gene: BabyRay\_88 Start: 48407, Stop: 47991, Start Num: 12

Candidate Starts for BabyRay\_88:

(1, 48647), (2, 48605), (3, 48551), (Start: 12 @48407 has 4 MA's), (19, 48371), (39, 48257), (53, 48134), (56, 48119), (60, 48089), (68, 48008),

Gene: BaileyBlu\_46 Start: 33124, Stop: 33462, Start Num: 26

Candidate Starts for BaileyBlu\_46:

(Start: 26 @33124 has 7 MA's), (42, 33235), (64, 33427),

Gene: CallinAllBarbz\_46 Start: 33305, Stop: 33643, Start Num: 26

Candidate Starts for CallinAllBarbz\_46:

(11, 33239), (Start: 26 @33305 has 7 MA's), (64, 33608),

Gene: Cardigan\_207 Start: 98477, Stop: 98064, Start Num: 12

Candidate Starts for Cardigan\_207:

(Start: 12 @98477 has 4 MA's), (17, 98456), (28, 98399), (29, 98384), (31, 98360), (33, 98351), (41, 98318), (45, 98273), (50, 98222), (53, 98195), (54, 98189),

Gene: Cen1621\_67 Start: 45156, Stop: 45494, Start Num: 25

Candidate Starts for Cen1621\_67:

(19, 45129), (21, 45141), (Start: 25 @45156 has 1 MA's), (57, 45399),

Gene: DrManhattan\_47 Start: 32688, Stop: 33023, Start Num: 26

Candidate Starts for DrManhattan\_47:

(15, 32634), (Start: 26 @32688 has 7 MA's),

Gene: DunneganBoMo\_21 Start: 8362, Stop: 8859, Start Num: 6

Candidate Starts for DunneganBoMo\_21:

(6, 8362), (7, 8368), (37, 8560), (44, 8605), (56, 8731),

Gene: DunneganBoMo\_324 Start: 187774, Stop: 188271, Start Num: 6

Candidate Starts for DunneganBoMo\_324:

(6, 187774), (7, 187780), (37, 187972), (44, 188017), (56, 188143),

Gene: Fryberger\_75 Start: 40522, Stop: 40130, Start Num: 16

Candidate Starts for Fryberger\_75:

(9, 40564), (Start: 16 @40522 has 6 MA's), (19, 40507), (20, 40501), (32, 40414), (47, 40306), (51, 40273), (53, 40252), (55, 40240), (56, 40237), (57, 40231), (60, 40207), (66, 40135),

Gene: GardenState\_70 Start: 42790, Stop: 43125, Start Num: 26

Candidate Starts for GardenState\_70:

(Start: 26 @42790 has 7 MA's),

Gene: Guey18\_81 Start: 41893, Stop: 41501, Start Num: 16

Candidate Starts for Guey18\_81:

(9, 41935), (Start: 16 @41893 has 6 MA's), (19, 41878), (20, 41872), (32, 41785), (34, 41779), (47, 41677), (51, 41644), (53, 41623), (56, 41608), (57, 41602), (60, 41578), (66, 41506),

Gene: Honk\_75 Start: 46974, Stop: 47339, Start Num: 24

Candidate Starts for Honk\_75:

(Start: 24 @46974 has 1 MA's), (36, 47064), (40, 47076), (62, 47274),

Gene: IAmGroot\_69 Start: 43001, Stop: 43336, Start Num: 26

Candidate Starts for IAmGroot\_69:

(18, 42962), (Start: 26 @43001 has 7 MA's),

Gene: Isca\_84 Start: 47705, Stop: 47304, Start Num: 12

Candidate Starts for Isca\_84:

(Start: 8 @47741 has 2 MA's), (Start: 12 @47705 has 4 MA's), (19, 47669), (30, 47588), (38, 47558), (43, 47531), (46, 47510), (50, 47471), (56, 47429), (60, 47399),

Gene: Jflix2\_106 Start: 61115, Stop: 60702, Start Num: 14

Candidate Starts for Jflix2\_106:

(Start: 14 @61115 has 1 MA's), (Start: 25 @61058 has 1 MA's), (27, 61043), (56, 60818), (59, 60794), (61, 60785),

Gene: JonJames\_201 Start: 99038, Stop: 98619, Start Num: 12

Candidate Starts for JonJames\_201:

(Start: 12 @99038 has 4 MA's), (17, 99014), (23, 98984), (29, 98942), (31, 98918), (48, 98801), (49, 98792), (53, 98759), (54, 98753), (63, 98687),

Gene: Keelan\_73 Start: 40361, Stop: 39963, Start Num: 16

Candidate Starts for Keelan\_73:

(9, 40403), (Start: 16 @40361 has 6 MA's), (20, 40340), (32, 40253), (47, 40139), (53, 40085), (55, 40073), (58, 40061), (66, 39968),

Gene: Kumao\_116 Start: 68785, Stop: 68384, Start Num: 13

Candidate Starts for Kumao\_116:

(4, 68875), (5, 68869), (Start: 13 @68785 has 1 MA's), (19, 68752), (35, 68647), (47, 68572), (50, 68551), (52, 68527), (65, 68413), (66, 68407),

Gene: Madraxi\_110 Start: 63073, Stop: 62732, Start Num: 27

Candidate Starts for Madraxi\_110:

(Start: 14 @63145 has 1 MA's), (22, 63100), (Start: 25 @63088 has 1 MA's), (27, 63073), (35, 63004),

Gene: MissSwiss\_48 Start: 33199, Stop: 33531, Start Num: 26

Candidate Starts for MissSwiss\_48:

(Start: 26 @33199 has 7 MA's), (64, 33505),

Gene: Phantastic\_88 Start: 47859, Stop: 47422, Start Num: 8

Candidate Starts for Phantastic\_88:

(Start: 8 @47859 has 2 MA's), (Start: 12 @47823 has 4 MA's), (19, 47787), (30, 47706), (38, 47676), (43, 47649), (46, 47628), (50, 47589), (56, 47547), (60, 47517),

Gene: Reedo\_47 Start: 32807, Stop: 33139, Start Num: 26

Candidate Starts for Reedo\_47:

(Start: 26 @32807 has 7 MA's),

Gene: Rockstar\_76 Start: 45549, Stop: 45112, Start Num: 8

Candidate Starts for Rockstar\_76:

(Start: 8 @45549 has 2 MA's), (Start: 12 @45513 has 4 MA's), (19, 45477), (30, 45396), (38, 45366), (43, 45339), (46, 45318), (56, 45237), (60, 45207),

Gene: Ronaldo\_79 Start: 41666, Stop: 41274, Start Num: 16

Candidate Starts for Ronaldo\_79:

(9, 41708), (Start: 16 @41666 has 6 MA's), (19, 41651), (20, 41645), (32, 41558), (47, 41450), (51, 41417), (53, 41396), (55, 41384), (56, 41381), (57, 41375), (60, 41351), (66, 41279),

Gene: Soondubu\_40 Start: 34415, Stop: 34756, Start Num: 26

Candidate Starts for Soondubu\_40:

(Start: 26 @34415 has 7 MA's), (64, 34718),

Gene: Tallboi\_49 Start: 35393, Stop: 35728, Start Num: 26

Candidate Starts for Tallboi\_49:

(Start: 26 @35393 has 7 MA's), (67, 35717),

Gene: Volt\_79 Start: 41830, Stop: 41438, Start Num: 16

Candidate Starts for Volt\_79:

(9, 41872), (Start: 16 @41830 has 6 MA's), (19, 41815), (20, 41809), (32, 41722), (47, 41614), (51, 41581), (53, 41560), (55, 41548), (56, 41545), (57, 41539), (60, 41515), (66, 41443),

Gene: Yvonnetastic\_202 Start: 96089, Stop: 95670, Start Num: 12

Candidate Starts for Yvonnetastic\_202:

(10, 96095), (Start: 12 @96089 has 4 MA's), (17, 96065), (23, 96035), (29, 95993), (31, 95969), (48, 95852), (49, 95843), (53, 95810), (54, 95804), (63, 95738),

Gene: Ziko\_79 Start: 41652, Stop: 41260, Start Num: 16

Candidate Starts for Ziko\_79:

(9, 41694), (Start: 16 @41652 has 6 MA's), (19, 41637), (20, 41631), (32, 41544), (47, 41436), (51, 41403), (53, 41382), (55, 41370), (56, 41367), (57, 41361), (60, 41337), (66, 41265),