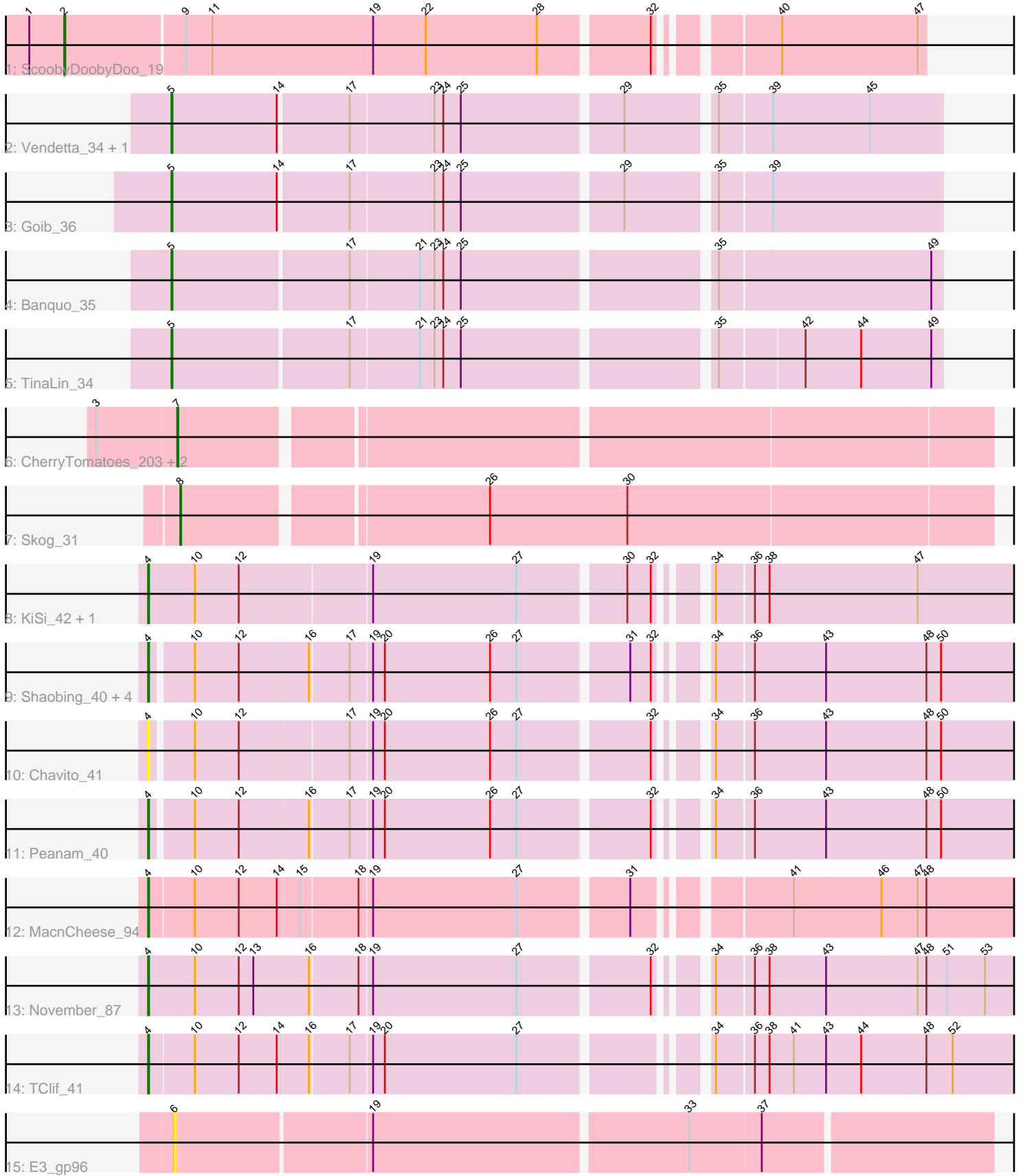


# Pham 300346



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 300346 Report

This analysis was run 06/08/26 on database version 649.

Pham number 300346 has 23 members, 5 are drafts.

Phages represented in each track:

- Track 1 : ScoobyDoobyDoo\_19
- Track 2 : Vendetta\_34, Splinter\_34
- Track 3 : Goib\_36
- Track 4 : Banquo\_35
- Track 5 : TinaLin\_34
- Track 6 : CherryTomatoes\_203, SCentae\_200, Pupper\_201
- Track 7 : Skog\_31
- Track 8 : KiSi\_42, LeMond\_42
- Track 9 : Shaobing\_40, Dartin\_40, Richo\_40, McMater\_40, Niklas\_40
- Track 10 : Chavito\_41
- Track 11 : Peanam\_40
- Track 12 : MacnCheese\_94
- Track 13 : November\_87
- Track 14 : TClif\_41
- Track 15 : E3\_gp96

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chavito\_41, Dartin\_40, KiSi\_42, LeMond\_42, MacnCheese\_94, McMater\_40, Niklas\_40, November\_87, Peanam\_40, Richo\_40, Shaobing\_40, TClif\_41,

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

- 

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

- Banquo\_35, CherryTomatoes\_203, E3\_gp96, Goib\_36, Pupper\_201, SCentae\_200, ScoobyDoobyDoo\_19, Skog\_31, Splinter\_34, TinaLin\_34, Vendetta\_34,

### **Summary by start number:**

Start 2:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo\_19 (C2),

Start 4:

- Found in 12 of 23 ( 52.2% ) of genes in pham
- Manual Annotations of this start: 8 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chavito\_41 (K1), Dartin\_40 (K1), KiSi\_42 (K1), LeMond\_42 (K1), MacnCheese\_94 (K3), McMater\_40 (K1), Niklas\_40 (K1), November\_87 (K6), Peanam\_40 (K1), Richo\_40 (K1), Shaobing\_40 (K1), TClif\_41 (K6),

Start 5:

- Found in 5 of 23 ( 21.7% ) of genes in pham
- Manual Annotations of this start: 5 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo\_35 (CU1), Goib\_36 (CU1), Splinter\_34 (CU1), TinaLin\_34 (CU1), Vendetta\_34 (CU1),

Start 6:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3\_gp96 (singleton),

Start 7:

- Found in 3 of 23 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_203 (DO), Pupper\_201 (DO), SCentae\_200 (DO),

Start 8:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog\_31 (DO),

**Summary by clusters:**

There are 7 clusters represented in this pham: DO, singleton, CU1, K3, K1, K6, C2,

Info for manual annotations of cluster C2:

- Start number 2 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CU1:

- Start number 5 was manually annotated 5 times for cluster CU1.

Info for manual annotations of cluster DO:

- Start number 7 was manually annotated 3 times for cluster DO.

•Start number 8 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster K1:

•Start number 4 was manually annotated 5 times for cluster K1.

Info for manual annotations of cluster K3:

•Start number 4 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:

•Start number 4 was manually annotated 2 times for cluster K6.

### **Gene Information:**

Gene: Banquo\_35 Start: 24903, Stop: 25655, Start Num: 5

Candidate Starts for Banquo\_35:

(Start: 5 @24903 has 5 MA's), (17, 25080), (21, 25149), (23, 25164), (24, 25173), (25, 25191), (35, 25431), (49, 25644),

Gene: Chavito\_41 Start: 31100, Stop: 31924, Start Num: 4

Candidate Starts for Chavito\_41:

(Start: 4 @31100 has 8 MA's), (10, 31139), (12, 31184), (17, 31292), (19, 31313), (20, 31325), (26, 31433), (27, 31460), (32, 31586), (34, 31622), (36, 31658), (43, 31730), (48, 31832), (50, 31847),

Gene: CherryTomatoes\_203 Start: 138518, Stop: 139312, Start Num: 7

Candidate Starts for CherryTomatoes\_203:

(3, 138437), (Start: 7 @138518 has 3 MA's),

Gene: Dartin\_40 Start: 30486, Stop: 31310, Start Num: 4

Candidate Starts for Dartin\_40:

(Start: 4 @30486 has 8 MA's), (10, 30525), (12, 30570), (16, 30639), (17, 30678), (19, 30699), (20, 30711), (26, 30819), (27, 30846), (31, 30951), (32, 30972), (34, 31008), (36, 31044), (43, 31116), (48, 31218), (50, 31233),

Gene: E3\_gp96 Start: 54822, Stop: 55628, Start Num: 6

Candidate Starts for E3\_gp96:

(6, 54822), (19, 55017), (33, 55329), (37, 55401),

Gene: Goib\_36 Start: 25321, Stop: 26073, Start Num: 5

Candidate Starts for Goib\_36:

(Start: 5 @25321 has 5 MA's), (14, 25429), (17, 25498), (23, 25582), (24, 25591), (25, 25609), (29, 25765), (35, 25849), (39, 25900),

Gene: KiSi\_42 Start: 31153, Stop: 31986, Start Num: 4

Candidate Starts for KiSi\_42:

(Start: 4 @31153 has 8 MA's), (10, 31201), (12, 31246), (19, 31375), (27, 31522), (30, 31624), (32, 31648), (34, 31684), (36, 31720), (38, 31735), (47, 31885),

Gene: LeMond\_42 Start: 31224, Stop: 32057, Start Num: 4

Candidate Starts for LeMond\_42:

(Start: 4 @31224 has 8 MA's), (10, 31272), (12, 31317), (19, 31446), (27, 31593), (30, 31695), (32, 31719), (34, 31755), (36, 31791), (38, 31806), (47, 31956),

Gene: MacnCheese\_94 Start: 57896, Stop: 58729, Start Num: 4

Candidate Starts for MacnCheese\_94:

(Start: 4 @57896 has 8 MA's), (10, 57941), (12, 57986), (14, 58025), (15, 58046), (18, 58103), (19, 58115), (27, 58262), (31, 58367), (41, 58499), (46, 58589), (47, 58625), (48, 58634),

Gene: McMater\_40 Start: 30486, Stop: 31310, Start Num: 4

Candidate Starts for McMater\_40:

(Start: 4 @30486 has 8 MA's), (10, 30525), (12, 30570), (16, 30639), (17, 30678), (19, 30699), (20, 30711), (26, 30819), (27, 30846), (31, 30951), (32, 30972), (34, 31008), (36, 31044), (43, 31116), (48, 31218), (50, 31233),

Gene: Niklas\_40 Start: 30489, Stop: 31313, Start Num: 4

Candidate Starts for Niklas\_40:

(Start: 4 @30489 has 8 MA's), (10, 30528), (12, 30573), (16, 30642), (17, 30681), (19, 30702), (20, 30714), (26, 30822), (27, 30849), (31, 30954), (32, 30975), (34, 31011), (36, 31047), (43, 31119), (48, 31221), (50, 31236),

Gene: November\_87 Start: 57492, Stop: 58328, Start Num: 4

Candidate Starts for November\_87:

(Start: 4 @57492 has 8 MA's), (10, 57540), (12, 57585), (13, 57600), (16, 57654), (18, 57702), (19, 57714), (27, 57861), (32, 57987), (34, 58023), (36, 58059), (38, 58074), (43, 58131), (47, 58224), (48, 58233), (51, 58254), (53, 58293),

Gene: Peanam\_40 Start: 30486, Stop: 31310, Start Num: 4

Candidate Starts for Peanam\_40:

(Start: 4 @30486 has 8 MA's), (10, 30525), (12, 30570), (16, 30639), (17, 30678), (19, 30699), (20, 30711), (26, 30819), (27, 30846), (32, 30972), (34, 31008), (36, 31044), (43, 31116), (48, 31218), (50, 31233),

Gene: Pupper\_201 Start: 138380, Stop: 139174, Start Num: 7

Candidate Starts for Pupper\_201:

(3, 138299), (Start: 7 @138380 has 3 MA's),

Gene: Richo\_40 Start: 30486, Stop: 31310, Start Num: 4

Candidate Starts for Richo\_40:

(Start: 4 @30486 has 8 MA's), (10, 30525), (12, 30570), (16, 30639), (17, 30678), (19, 30699), (20, 30711), (26, 30819), (27, 30846), (31, 30951), (32, 30972), (34, 31008), (36, 31044), (43, 31116), (48, 31218), (50, 31233),

Gene: SCentae\_200 Start: 138572, Stop: 139366, Start Num: 7

Candidate Starts for SCentae\_200:

(3, 138491), (Start: 7 @138572 has 3 MA's),

Gene: ScoobyDoobyDoo\_19 Start: 5999, Stop: 6829, Start Num: 2

Candidate Starts for ScoobyDoobyDoo\_19:

(1, 5963), (Start: 2 @5999 has 1 MA's), (9, 6119), (11, 6146), (19, 6311), (22, 6365), (28, 6479), (32, 6584), (40, 6683), (47, 6821),

Gene: Shaobing\_40 Start: 30486, Stop: 31310, Start Num: 4

Candidate Starts for Shaobing\_40:

(Start: 4 @30486 has 8 MA's), (10, 30525), (12, 30570), (16, 30639), (17, 30678), (19, 30699), (20, 30711), (26, 30819), (27, 30846), (31, 30951), (32, 30972), (34, 31008), (36, 31044), (43, 31116), (48,

31218), (50, 31233),

Gene: Skog\_31 Start: 14091, Stop: 14894, Start Num: 8

Candidate Starts for Skog\_31:

(Start: 8 @14091 has 1 MA's), (26, 14385), (30, 14526),

Gene: Splinter\_34 Start: 25311, Stop: 26063, Start Num: 5

Candidate Starts for Splinter\_34:

(Start: 5 @25311 has 5 MA's), (14, 25419), (17, 25488), (23, 25572), (24, 25581), (25, 25599), (29, 25755), (35, 25839), (39, 25890), (45, 25989),

Gene: TClif\_41 Start: 30689, Stop: 31522, Start Num: 4

Candidate Starts for TClif\_41:

(Start: 4 @30689 has 8 MA's), (10, 30734), (12, 30779), (14, 30818), (16, 30848), (17, 30887), (19, 30908), (20, 30920), (27, 31055), (34, 31217), (36, 31253), (38, 31268), (41, 31292), (43, 31325), (44, 31361), (48, 31427), (52, 31454),

Gene: TinaLin\_34 Start: 24579, Stop: 25328, Start Num: 5

Candidate Starts for TinaLin\_34:

(Start: 5 @24579 has 5 MA's), (17, 24756), (21, 24825), (23, 24840), (24, 24849), (25, 24867), (35, 25107), (42, 25188), (44, 25245), (49, 25317),

Gene: Vendetta\_34 Start: 25311, Stop: 26063, Start Num: 5

Candidate Starts for Vendetta\_34:

(Start: 5 @25311 has 5 MA's), (14, 25419), (17, 25488), (23, 25572), (24, 25581), (25, 25599), (29, 25755), (35, 25839), (39, 25890), (45, 25989),