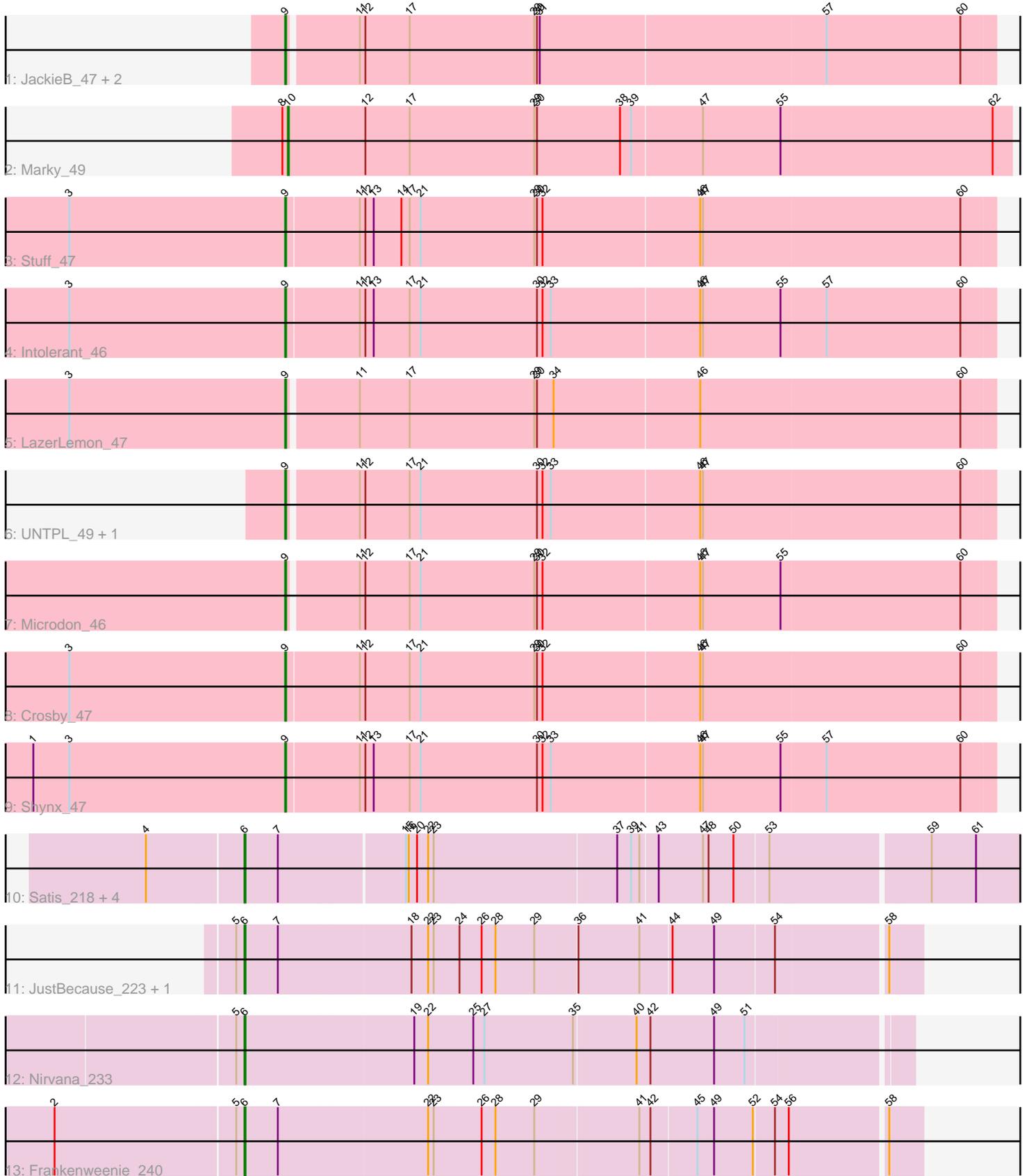


# Pham 288211



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 288211 Report

This analysis was run 03/28/26 on database version 641.

Pham number 288211 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : JackieB\_47, Araceli\_47, Henoccus\_47
- Track 2 : Marky\_49
- Track 3 : Stuff\_47
- Track 4 : Intolerant\_46
- Track 5 : LazerLemon\_47
- Track 6 : UNTPL\_49, Bogota\_48
- Track 7 : Microdon\_46
- Track 8 : Crosby\_47
- Track 9 : Shynx\_47
- Track 10 : Satis\_218, Kradal\_220, Sarkar\_229, Quantum\_217, EhyElimayoE\_221
- Track 11 : JustBecause\_223, Kela\_221
- Track 12 : Nirvana\_233
- Track 13 : Frankenweenie\_240

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

The start number called the most often in the published annotations is 9, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araceli\_47, Bogota\_48, Crosby\_47, Henoccus\_47, Intolerant\_46, JackieB\_47, LazerLemon\_47, Microdon\_46, Shynx\_47, Stuff\_47, UNTPL\_49,

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

- 

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

- EhyElimayoE\_221, Frankenweenie\_240, JustBecause\_223, Kela\_221, Kradal\_220, Marky\_49, Nirvana\_233, Quantum\_217, Sarkar\_229, Satis\_218,

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

Start 6:

- Found in 9 of 21 ( 42.9% ) of genes in pham

- Manual Annotations of this start: 8 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_221 (BM), Frankenweenie\_240 (BM), JustBecause\_223 (BM), Kela\_221 (BM), Kradal\_220 (BM), Nirvana\_233 (BM), Quantum\_217 (BM), Sarkar\_229 (BM), Satis\_218 (BM),

Start 9:

- Found in 11 of 21 ( 52.4% ) of genes in pham
- Manual Annotations of this start: 11 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araceli\_47 (BH), Bogota\_48 (BH), Crosby\_47 (BH), Henoccus\_47 (BH), Intolerant\_46 (BH), JackieB\_47 (BH), LazerLemon\_47 (BH), Microdon\_46 (BH), Shynx\_47 (BH), Stuff\_47 (BH), UNTPL\_49 (BH),

Start 10:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marky\_49 (BH),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BM, BH,

Info for manual annotations of cluster BH:

- Start number 9 was manually annotated 11 times for cluster BH.
- Start number 10 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BM:

- Start number 6 was manually annotated 8 times for cluster BM.

### **Gene Information:**

Gene: Araceli\_47 Start: 34357, Stop: 35109, Start Num: 9

Candidate Starts for Araceli\_47:

(Start: 9 @34357 has 11 MA's), (11, 34429), (12, 34435), (17, 34483), (29, 34618), (30, 34621), (31, 34624), (57, 34930), (60, 35074),

Gene: Bogota\_48 Start: 34899, Stop: 35651, Start Num: 9

Candidate Starts for Bogota\_48:

(Start: 9 @34899 has 11 MA's), (11, 34971), (12, 34977), (17, 35025), (21, 35037), (30, 35163), (32, 35169), (33, 35178), (46, 35337), (47, 35340), (60, 35616),

Gene: Crosby\_47 Start: 34650, Stop: 35408, Start Num: 9

Candidate Starts for Crosby\_47:

(3, 34416), (Start: 9 @34650 has 11 MA's), (11, 34728), (12, 34734), (17, 34782), (21, 34794), (29, 34917), (30, 34920), (32, 34926), (46, 35094), (47, 35097), (60, 35373),

Gene: EhyElimayoE\_221 Start: 131574, Stop: 132389, Start Num: 6

Candidate Starts for EhyElimayoE\_221:

(4, 131472), (Start: 6 @131574 has 8 MA's), (7, 131610), (15, 131742), (16, 131745), (20, 131754), (22, 131766), (23, 131772), (37, 131967), (39, 131982), (41, 131991), (43, 132009), (47, 132057), (48, 132063), (50, 132090), (53, 132126), (59, 132291), (61, 132339),

Gene: Frankenweenie\_240 Start: 142886, Stop: 143593, Start Num: 6

Candidate Starts for Frankenweenie\_240:

(2, 142685), (5, 142877), (Start: 6 @142886 has 8 MA's), (7, 142922), (22, 143081), (23, 143087), (26, 143138), (28, 143153), (29, 143195), (41, 143303), (42, 143315), (45, 143363), (49, 143381), (52, 143423), (54, 143444), (56, 143459), (58, 143558),

Gene: Henococcus\_47 Start: 34374, Stop: 35126, Start Num: 9

Candidate Starts for Henococcus\_47:

(Start: 9 @34374 has 11 MA's), (11, 34446), (12, 34452), (17, 34500), (29, 34635), (30, 34638), (31, 34641), (57, 34947), (60, 35091),

Gene: Intolerant\_46 Start: 34591, Stop: 35349, Start Num: 9

Candidate Starts for Intolerant\_46:

(3, 34357), (Start: 9 @34591 has 11 MA's), (11, 34669), (12, 34675), (13, 34684), (17, 34723), (21, 34735), (30, 34861), (32, 34867), (33, 34876), (46, 35035), (47, 35038), (55, 35122), (57, 35170), (60, 35314),

Gene: JackieB\_47 Start: 34213, Stop: 34965, Start Num: 9

Candidate Starts for JackieB\_47:

(Start: 9 @34213 has 11 MA's), (11, 34285), (12, 34291), (17, 34339), (29, 34474), (30, 34477), (31, 34480), (57, 34786), (60, 34930),

Gene: JustBecause\_223 Start: 130604, Stop: 131311, Start Num: 6

Candidate Starts for JustBecause\_223:

(5, 130595), (Start: 6 @130604 has 8 MA's), (7, 130640), (18, 130781), (22, 130799), (23, 130805), (24, 130832), (26, 130856), (28, 130871), (29, 130913), (36, 130955), (41, 131021), (44, 131054), (49, 131099), (54, 131162), (58, 131276),

Gene: Kela\_221 Start: 130449, Stop: 131156, Start Num: 6

Candidate Starts for Kela\_221:

(5, 130440), (Start: 6 @130449 has 8 MA's), (7, 130485), (18, 130626), (22, 130644), (23, 130650), (24, 130677), (26, 130701), (28, 130716), (29, 130758), (36, 130800), (41, 130866), (44, 130899), (49, 130944), (54, 131007), (58, 131121),

Gene: Kradal\_220 Start: 131571, Stop: 132386, Start Num: 6

Candidate Starts for Kradal\_220:

(4, 131469), (Start: 6 @131571 has 8 MA's), (7, 131607), (15, 131739), (16, 131742), (20, 131751), (22, 131763), (23, 131769), (37, 131964), (39, 131979), (41, 131988), (43, 132006), (47, 132054), (48, 132060), (50, 132087), (53, 132123), (59, 132288), (61, 132336),

Gene: LazerLemon\_47 Start: 35007, Stop: 35759, Start Num: 9

Candidate Starts for LazerLemon\_47:

(3, 34773), (Start: 9 @35007 has 11 MA's), (11, 35079), (17, 35133), (29, 35268), (30, 35271), (34, 35289), (46, 35445), (60, 35724),

Gene: Marky\_49 Start: 35097, Stop: 35876, Start Num: 10

Candidate Starts for Marky\_49:

(8, 35091), (Start: 10 @35097 has 1 MA's), (12, 35181), (17, 35229), (29, 35364), (30, 35367), (38, 35457), (39, 35469), (47, 35544), (55, 35628), (62, 35856),

Gene: Microdon\_46 Start: 34403, Stop: 35155, Start Num: 9

Candidate Starts for Microdon\_46:

(Start: 9 @34403 has 11 MA's), (11, 34475), (12, 34481), (17, 34529), (21, 34541), (29, 34664), (30, 34667), (32, 34673), (46, 34841), (47, 34844), (55, 34928), (60, 35120),

Gene: Nirvana\_233 Start: 141161, Stop: 141862, Start Num: 6

Candidate Starts for Nirvana\_233:

(5, 141152), (Start: 6 @141161 has 8 MA's), (19, 141341), (22, 141356), (25, 141404), (27, 141416), (35, 141512), (40, 141578), (42, 141593), (49, 141662), (51, 141695),

Gene: Quantum\_217 Start: 131565, Stop: 132380, Start Num: 6

Candidate Starts for Quantum\_217:

(4, 131463), (Start: 6 @131565 has 8 MA's), (7, 131601), (15, 131733), (16, 131736), (20, 131745), (22, 131757), (23, 131763), (37, 131958), (39, 131973), (41, 131982), (43, 132000), (47, 132048), (48, 132054), (50, 132081), (53, 132117), (59, 132282), (61, 132330),

Gene: Sarkar\_229 Start: 131595, Stop: 132410, Start Num: 6

Candidate Starts for Sarkar\_229:

(4, 131493), (Start: 6 @131595 has 8 MA's), (7, 131631), (15, 131763), (16, 131766), (20, 131775), (22, 131787), (23, 131793), (37, 131988), (39, 132003), (41, 132012), (43, 132030), (47, 132078), (48, 132084), (50, 132111), (53, 132147), (59, 132312), (61, 132360),

Gene: Satis\_218 Start: 131908, Stop: 132723, Start Num: 6

Candidate Starts for Satis\_218:

(4, 131806), (Start: 6 @131908 has 8 MA's), (7, 131944), (15, 132076), (16, 132079), (20, 132088), (22, 132100), (23, 132106), (37, 132301), (39, 132316), (41, 132325), (43, 132343), (47, 132391), (48, 132397), (50, 132424), (53, 132460), (59, 132625), (61, 132673),

Gene: Shynx\_47 Start: 34827, Stop: 35585, Start Num: 9

Candidate Starts for Shynx\_47:

(1, 34554), (3, 34593), (Start: 9 @34827 has 11 MA's), (11, 34905), (12, 34911), (13, 34920), (17, 34959), (21, 34971), (30, 35097), (32, 35103), (33, 35112), (46, 35271), (47, 35274), (55, 35358), (57, 35406), (60, 35550),

Gene: Stuff\_47 Start: 34889, Stop: 35647, Start Num: 9

Candidate Starts for Stuff\_47:

(3, 34655), (Start: 9 @34889 has 11 MA's), (11, 34967), (12, 34973), (13, 34982), (14, 35012), (17, 35021), (21, 35033), (29, 35156), (30, 35159), (32, 35165), (46, 35333), (47, 35336), (60, 35612),

Gene: UNTPL\_49 Start: 34934, Stop: 35686, Start Num: 9

Candidate Starts for UNTPL\_49:

(Start: 9 @34934 has 11 MA's), (11, 35006), (12, 35012), (17, 35060), (21, 35072), (30, 35198), (32, 35204), (33, 35213), (46, 35372), (47, 35375), (60, 35651),