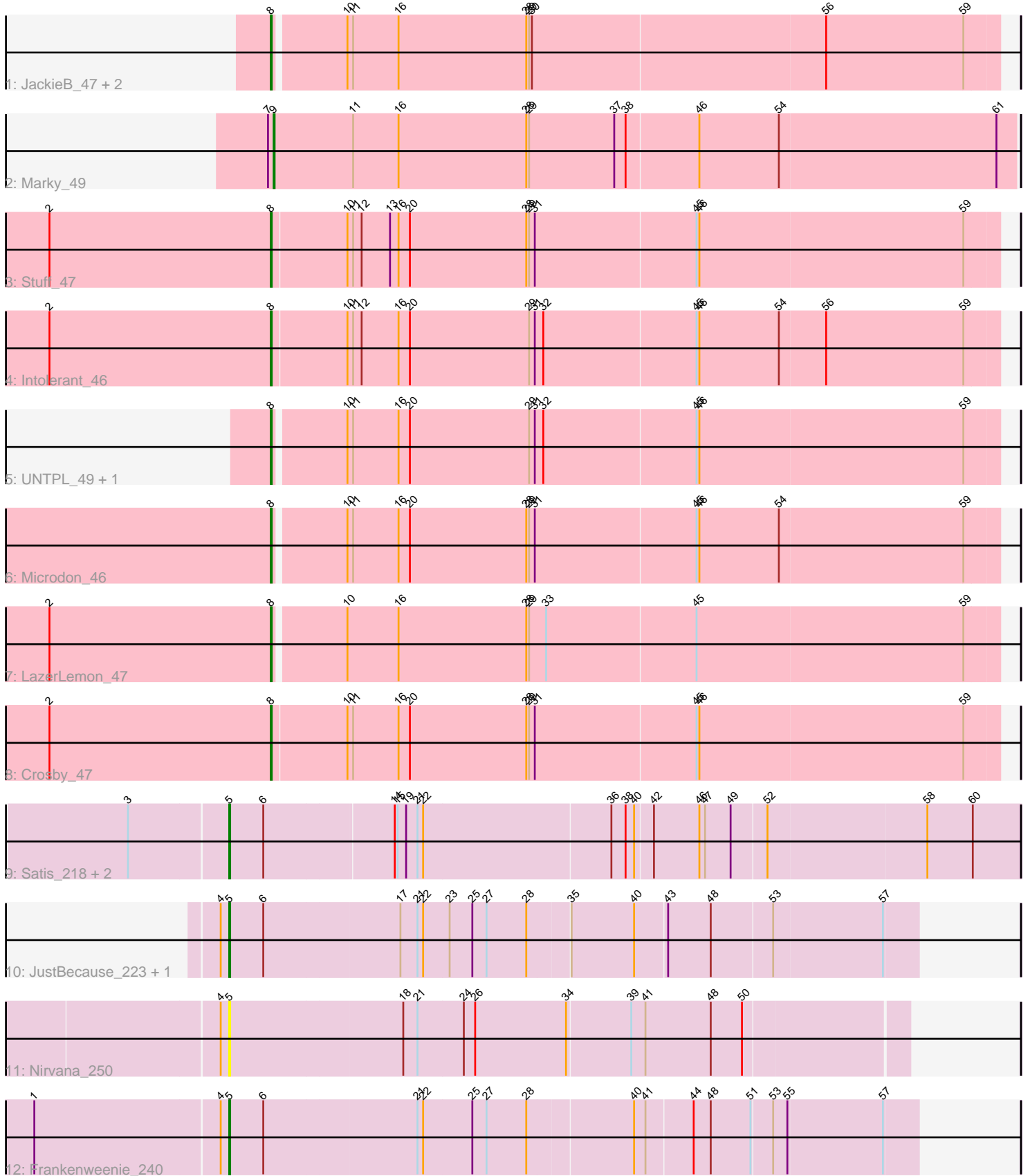


Pham 163960



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 163960 Report

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

Pham number 163960 has 18 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 : UNTPL_49, Bogota_48
- Track 6 : Microdon_46
- Track 7 : LazerLemon_47
- Track 8 : Crosby_47
- Track 9 : Satis_218, Kradal_220, EhyElimayoE_221
- Track 10 : JustBecause_223, Kela_221
- Track 11 : Nirvana_250
- Track 12 : 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 8, it was called in 10 of the 17 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, 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_250, Satis_218,

Summary by start number:

Start 5:

- Found in 7 of 18 (38.9%) of genes in pham
- Manual Annotations of this start: 6 of 17

- 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_250 (BM), Satis_218 (BM),

Start 8:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 10 of 17
- 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), Stuff_47 (BH), UNTPL_49 (BH),

Start 9:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 17
- 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 8 was manually annotated 10 times for cluster BH.
- Start number 9 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BM:

- Start number 5 was manually annotated 6 times for cluster BM.

Gene Information:

Gene: Araceli_47 Start: 34357, Stop: 35109, Start Num: 8

Candidate Starts for Araceli_47:

(Start: 8 @34357 has 10 MA's), (10, 34429), (11, 34435), (16, 34483), (28, 34618), (29, 34621), (30, 34624), (56, 34930), (59, 35074),

Gene: Bogota_48 Start: 34899, Stop: 35651, Start Num: 8

Candidate Starts for Bogota_48:

(Start: 8 @34899 has 10 MA's), (10, 34971), (11, 34977), (16, 35025), (20, 35037), (29, 35163), (31, 35169), (32, 35178), (45, 35337), (46, 35340), (59, 35616),

Gene: Crosby_47 Start: 34650, Stop: 35408, Start Num: 8

Candidate Starts for Crosby_47:

(2, 34416), (Start: 8 @34650 has 10 MA's), (10, 34728), (11, 34734), (16, 34782), (20, 34794), (28, 34917), (29, 34920), (31, 34926), (45, 35094), (46, 35097), (59, 35373),

Gene: EhyElimayoE_221 Start: 131574, Stop: 132389, Start Num: 5

Candidate Starts for EhyElimayoE_221:

(3, 131472), (Start: 5 @131574 has 6 MA's), (6, 131610), (14, 131742), (15, 131745), (19, 131754), (21, 131766), (22, 131772), (36, 131967), (38, 131982), (40, 131991), (42, 132009), (46, 132057), (47,

132063), (49, 132090), (52, 132126), (58, 132291), (60, 132339),

Gene: Frankenweenie_240 Start: 142886, Stop: 143593, Start Num: 5

Candidate Starts for Frankenweenie_240:

(1, 142685), (4, 142877), (Start: 5 @142886 has 6 MA's), (6, 142922), (21, 143081), (22, 143087), (25, 143138), (27, 143153), (28, 143195), (40, 143303), (41, 143315), (44, 143363), (48, 143381), (51, 143423), (53, 143444), (55, 143459), (57, 143558),

Gene: Henococcus_47 Start: 34374, Stop: 35126, Start Num: 8

Candidate Starts for Henococcus_47:

(Start: 8 @34374 has 10 MA's), (10, 34446), (11, 34452), (16, 34500), (28, 34635), (29, 34638), (30, 34641), (56, 34947), (59, 35091),

Gene: Intolerant_46 Start: 34591, Stop: 35349, Start Num: 8

Candidate Starts for Intolerant_46:

(2, 34357), (Start: 8 @34591 has 10 MA's), (10, 34669), (11, 34675), (12, 34684), (16, 34723), (20, 34735), (29, 34861), (31, 34867), (32, 34876), (45, 35035), (46, 35038), (54, 35122), (56, 35170), (59, 35314),

Gene: JackieB_47 Start: 34213, Stop: 34965, Start Num: 8

Candidate Starts for JackieB_47:

(Start: 8 @34213 has 10 MA's), (10, 34285), (11, 34291), (16, 34339), (28, 34474), (29, 34477), (30, 34480), (56, 34786), (59, 34930),

Gene: JustBecause_223 Start: 130604, Stop: 131311, Start Num: 5

Candidate Starts for JustBecause_223:

(4, 130595), (Start: 5 @130604 has 6 MA's), (6, 130640), (17, 130781), (21, 130799), (22, 130805), (23, 130832), (25, 130856), (27, 130871), (28, 130913), (35, 130955), (40, 131021), (43, 131054), (48, 131099), (53, 131162), (57, 131276),

Gene: Kela_221 Start: 130449, Stop: 131156, Start Num: 5

Candidate Starts for Kela_221:

(4, 130440), (Start: 5 @130449 has 6 MA's), (6, 130485), (17, 130626), (21, 130644), (22, 130650), (23, 130677), (25, 130701), (27, 130716), (28, 130758), (35, 130800), (40, 130866), (43, 130899), (48, 130944), (53, 131007), (57, 131121),

Gene: Kradal_220 Start: 131571, Stop: 132386, Start Num: 5

Candidate Starts for Kradal_220:

(3, 131469), (Start: 5 @131571 has 6 MA's), (6, 131607), (14, 131739), (15, 131742), (19, 131751), (21, 131763), (22, 131769), (36, 131964), (38, 131979), (40, 131988), (42, 132006), (46, 132054), (47, 132060), (49, 132087), (52, 132123), (58, 132288), (60, 132336),

Gene: LazerLemon_47 Start: 35007, Stop: 35759, Start Num: 8

Candidate Starts for LazerLemon_47:

(2, 34773), (Start: 8 @35007 has 10 MA's), (10, 35079), (16, 35133), (28, 35268), (29, 35271), (33, 35289), (45, 35445), (59, 35724),

Gene: Marky_49 Start: 35097, Stop: 35876, Start Num: 9

Candidate Starts for Marky_49:

(7, 35091), (Start: 9 @35097 has 1 MA's), (11, 35181), (16, 35229), (28, 35364), (29, 35367), (37, 35457), (38, 35469), (46, 35544), (54, 35628), (61, 35856),

Gene: Microdon_46 Start: 34403, Stop: 35155, Start Num: 8

Candidate Starts for Microdon_46:

(Start: 8 @34403 has 10 MA's), (10, 34475), (11, 34481), (16, 34529), (20, 34541), (28, 34664), (29, 34667), (31, 34673), (45, 34841), (46, 34844), (54, 34928), (59, 35120),

Gene: Nirvana_250 Start: 141161, Stop: 141862, Start Num: 5

Candidate Starts for Nirvana_250:

(4, 141152), (Start: 5 @141161 has 6 MA's), (18, 141341), (21, 141356), (24, 141404), (26, 141416), (34, 141512), (39, 141578), (41, 141593), (48, 141662), (50, 141695),

Gene: Satis_218 Start: 131908, Stop: 132723, Start Num: 5

Candidate Starts for Satis_218:

(3, 131806), (Start: 5 @131908 has 6 MA's), (6, 131944), (14, 132076), (15, 132079), (19, 132088), (21, 132100), (22, 132106), (36, 132301), (38, 132316), (40, 132325), (42, 132343), (46, 132391), (47, 132397), (49, 132424), (52, 132460), (58, 132625), (60, 132673),

Gene: Stuff_47 Start: 34889, Stop: 35647, Start Num: 8

Candidate Starts for Stuff_47:

(2, 34655), (Start: 8 @34889 has 10 MA's), (10, 34967), (11, 34973), (12, 34982), (13, 35012), (16, 35021), (20, 35033), (28, 35156), (29, 35159), (31, 35165), (45, 35333), (46, 35336), (59, 35612),

Gene: UNTPL_49 Start: 34934, Stop: 35686, Start Num: 8

Candidate Starts for UNTPL_49:

(Start: 8 @34934 has 10 MA's), (10, 35006), (11, 35012), (16, 35060), (20, 35072), (29, 35198), (31, 35204), (32, 35213), (45, 35372), (46, 35375), (59, 35651),