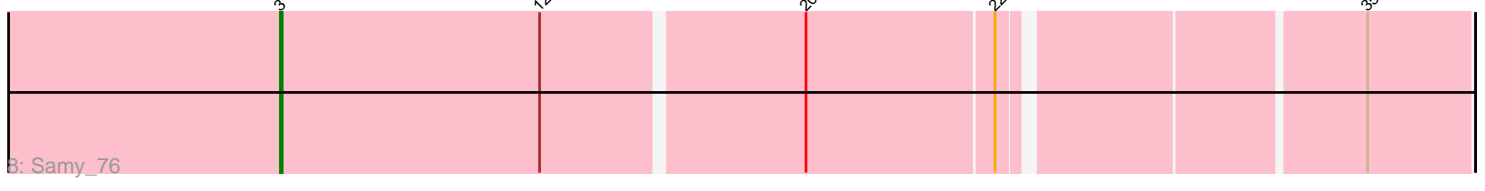
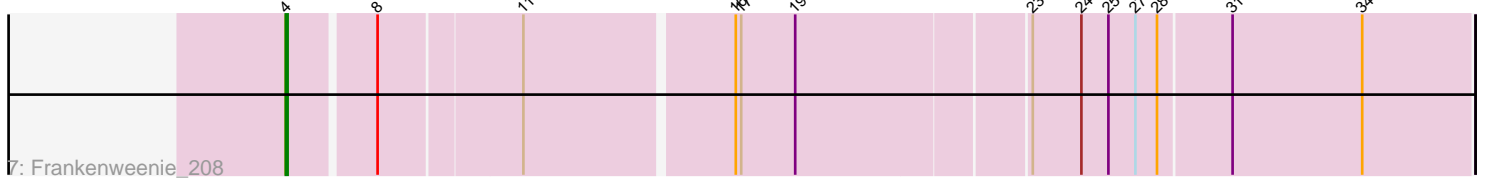
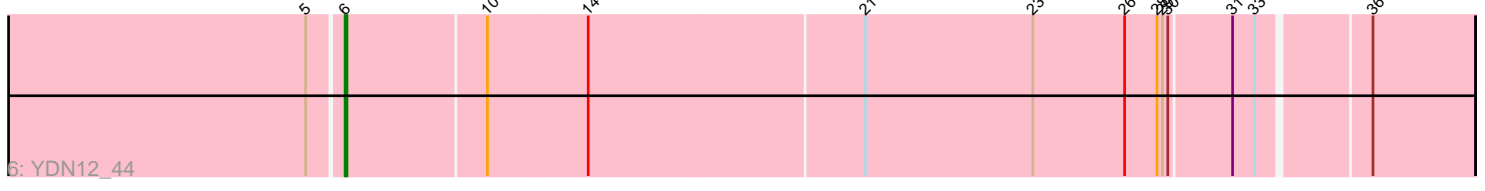
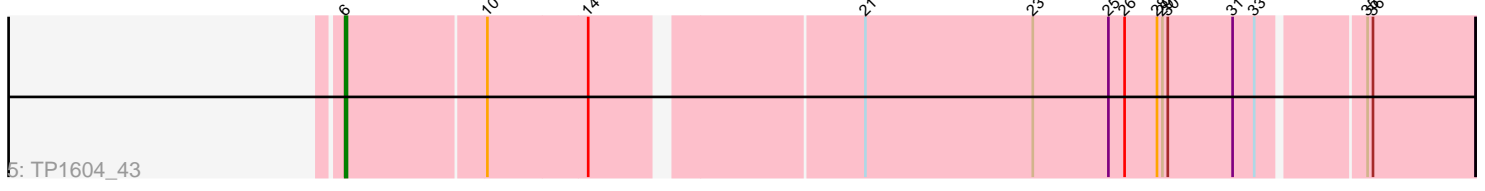
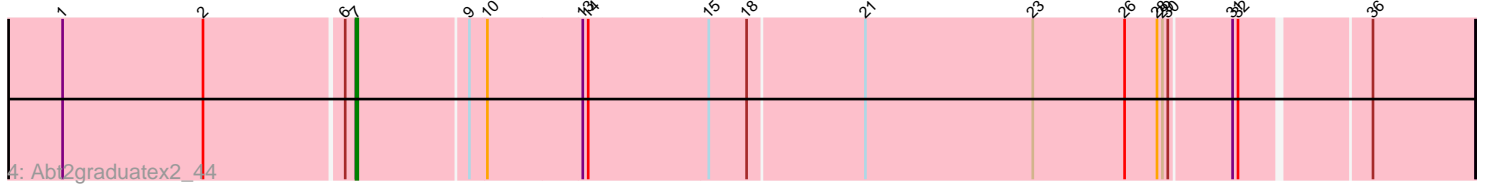
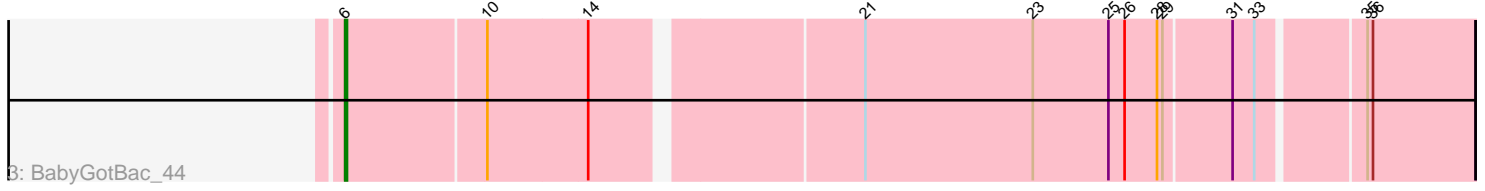
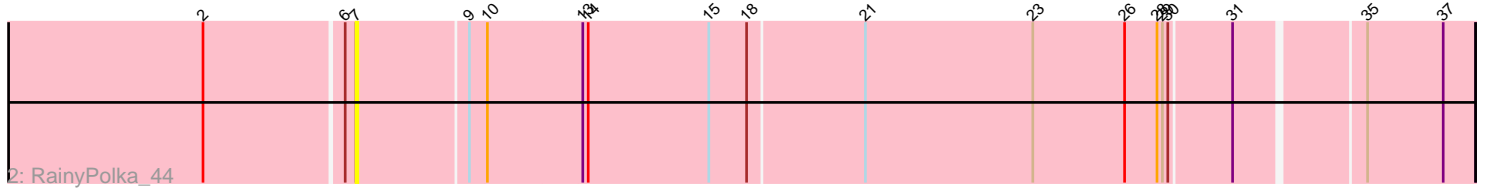
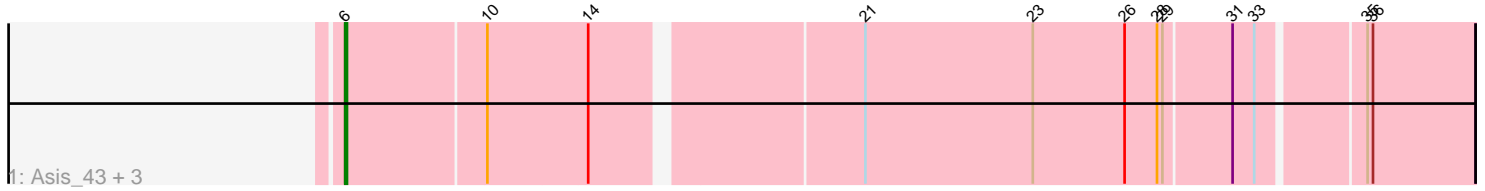


Pham 223614



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 223614 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223614 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Asis\_43, Maih\_42, BayC\_43, Salete\_43
- Track 2 : RainyPolka\_44
- Track 3 : BabyGotBac\_44
- Track 4 : Abt2graduatex2\_44
- Track 5 : TP1604\_43
- Track 6 : YDN12\_44
- Track 7 : Frankenweenie\_208
- Track 8 : Samy\_76

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

The start number called the most often in the published annotations is 6, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asis\_43, BabyGotBac\_44, BayC\_43, Maih\_42, Salete\_43, TP1604\_43, YDN12\_44,

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

- Abt2graduatex2\_44, RainyPolka\_44,

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

- Frankenweenie\_208, Samy\_76,

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

Start 3:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Samy\_76 (singleton),

Start 4:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Frankenweenie\_208 (BM),

Start 6:

- Found in 9 of 11 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Asis\_43 (BG), BabyGotBac\_44 (BG), BayC\_43 (BG), Maih\_42 (BG), Salete\_43 (BG), TP1604\_43 (BG), YDN12\_44 (BG),

Start 7:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2\_44 (BG), RainyPolka\_44 (BG),

### **Summary by clusters:**

There are 3 clusters represented in this pham: BM, singleton, BG,

Info for manual annotations of cluster BG:

- Start number 6 was manually annotated 7 times for cluster BG.
- Start number 7 was manually annotated 1 time for cluster BG.

Info for manual annotations of cluster BM:

- Start number 4 was manually annotated 1 time for cluster BM.

### **Gene Information:**

Gene: Abt2graduatex2\_44 Start: 35231, Stop: 34632, Start Num: 7

Candidate Starts for Abt2graduatex2\_44:

(1, 35390), (2, 35312), (Start: 6 @35237 has 7 MA's), (Start: 7 @35231 has 1 MA's), (9, 35171), (10, 35162), (13, 35111), (14, 35108), (15, 35042), (18, 35021), (21, 34958), (23, 34865), (26, 34814), (28, 34796), (29, 34793), (30, 34790), (31, 34757), (32, 34754), (36, 34688),

Gene: Asis\_43 Start: 34988, Stop: 34395, Start Num: 6

Candidate Starts for Asis\_43:

(Start: 6 @34988 has 7 MA's), (10, 34913), (14, 34859), (21, 34721), (23, 34628), (26, 34577), (28, 34559), (29, 34556), (31, 34520), (33, 34508), (35, 34454), (36, 34451),

Gene: BabyGotBac\_44 Start: 34988, Stop: 34395, Start Num: 6

Candidate Starts for BabyGotBac\_44:

(Start: 6 @34988 has 7 MA's), (10, 34913), (14, 34859), (21, 34721), (23, 34628), (25, 34586), (26, 34577), (28, 34559), (29, 34556), (31, 34520), (33, 34508), (35, 34454), (36, 34451),

Gene: BayC\_43 Start: 34985, Stop: 34392, Start Num: 6

Candidate Starts for BayC\_43:

(Start: 6 @34985 has 7 MA's), (10, 34910), (14, 34856), (21, 34718), (23, 34625), (26, 34574), (28, 34556), (29, 34553), (31, 34517), (33, 34505), (35, 34451), (36, 34448),

Gene: Frankenweenie\_208 Start: 132793, Stop: 133419, Start Num: 4

Candidate Starts for Frankenweenie\_208:

(Start: 4 @132793 has 1 MA's), (8, 132838), (11, 132913), (16, 133024), (17, 133027), (19, 133057), (23, 133180), (24, 133207), (25, 133222), (27, 133237), (28, 133249), (31, 133288), (34, 133360),

Gene: Maih\_42 Start: 34987, Stop: 34394, Start Num: 6

Candidate Starts for Maih\_42:

(Start: 6 @34987 has 7 MA's), (10, 34912), (14, 34858), (21, 34720), (23, 34627), (26, 34576), (28, 34558), (29, 34555), (31, 34519), (33, 34507), (35, 34453), (36, 34450),

Gene: RainyPolka\_44 Start: 34971, Stop: 34372, Start Num: 7

Candidate Starts for RainyPolka\_44:

(2, 35052), (Start: 6 @34977 has 7 MA's), (Start: 7 @34971 has 1 MA's), (9, 34911), (10, 34902), (13, 34851), (14, 34848), (15, 34782), (18, 34761), (21, 34698), (23, 34605), (26, 34554), (28, 34536), (29, 34533), (30, 34530), (31, 34497), (35, 34431), (37, 34389),

Gene: Salete\_43 Start: 34985, Stop: 34392, Start Num: 6

Candidate Starts for Salete\_43:

(Start: 6 @34985 has 7 MA's), (10, 34910), (14, 34856), (21, 34718), (23, 34625), (26, 34574), (28, 34556), (29, 34553), (31, 34517), (33, 34505), (35, 34451), (36, 34448),

Gene: Samy\_76 Start: 48622, Stop: 49248, Start Num: 3

Candidate Starts for Samy\_76:

(Start: 3 @48622 has 1 MA's), (12, 48766), (20, 48904), (22, 49006), (35, 49192),

Gene: TP1604\_43 Start: 34991, Stop: 34395, Start Num: 6

Candidate Starts for TP1604\_43:

(Start: 6 @34991 has 7 MA's), (10, 34916), (14, 34862), (21, 34724), (23, 34631), (25, 34589), (26, 34580), (28, 34562), (29, 34559), (30, 34556), (31, 34520), (33, 34508), (35, 34454), (36, 34451),

Gene: YDN12\_44 Start: 34439, Stop: 33834, Start Num: 6

Candidate Starts for YDN12\_44:

(5, 34457), (Start: 6 @34439 has 7 MA's), (10, 34364), (14, 34310), (21, 34160), (23, 34067), (26, 34016), (28, 33998), (29, 33995), (30, 33992), (31, 33959), (33, 33947), (36, 33890),