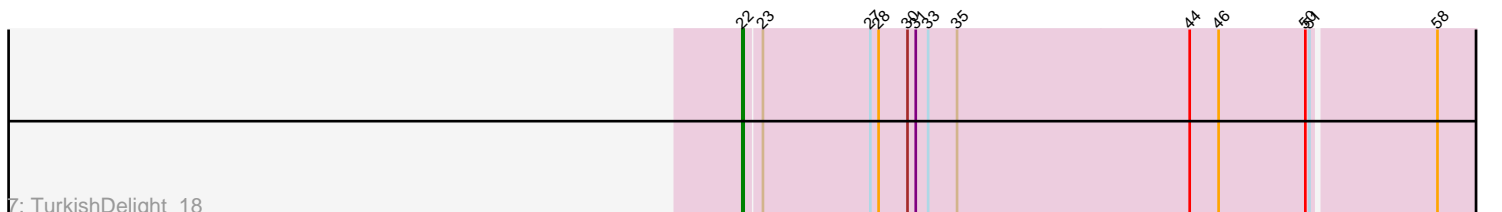
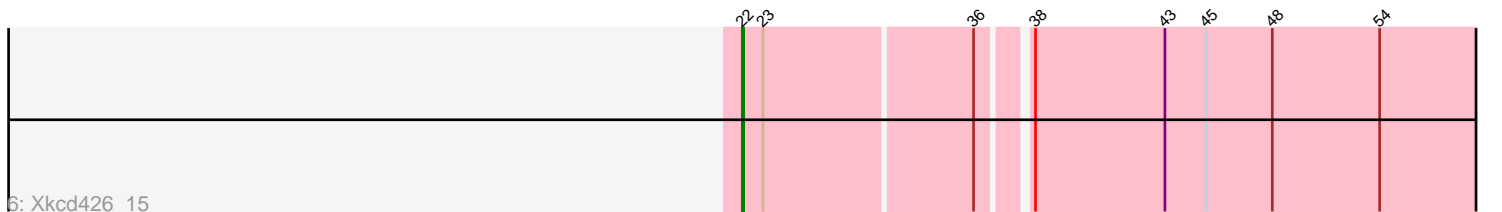
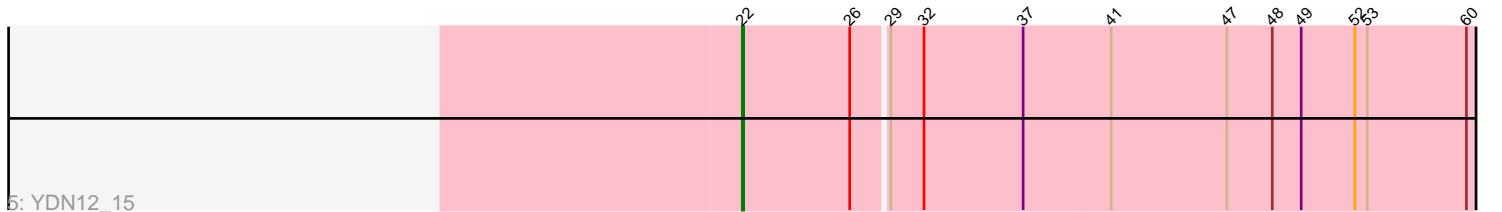
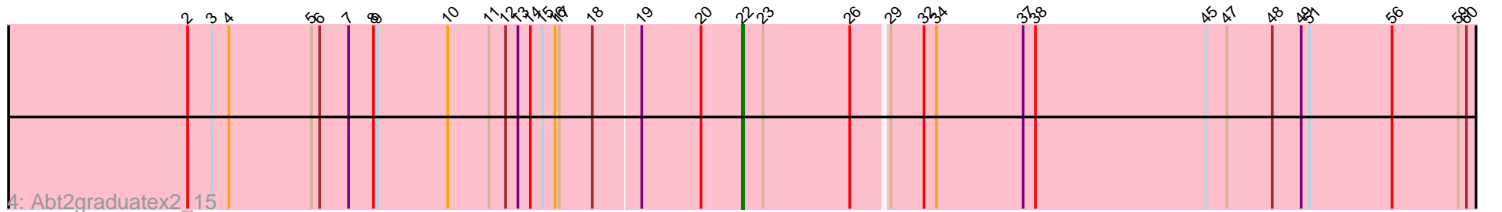
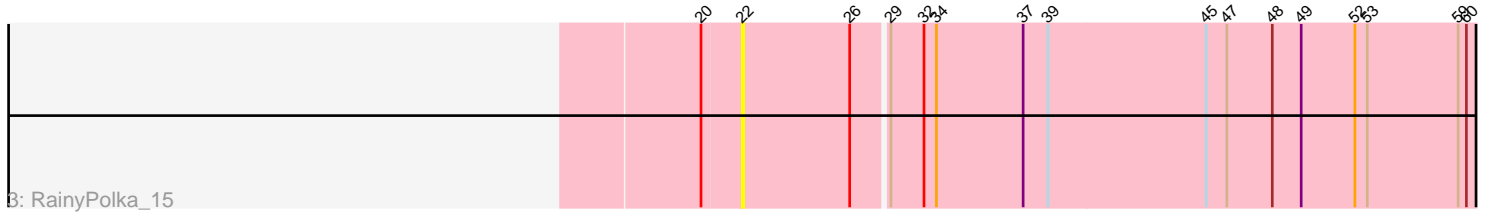
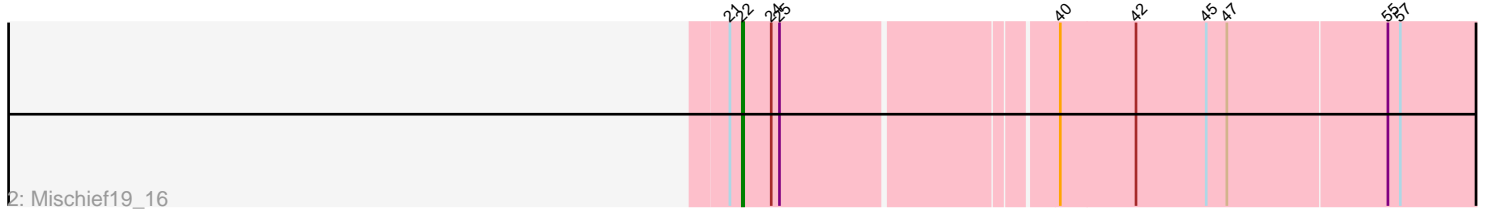
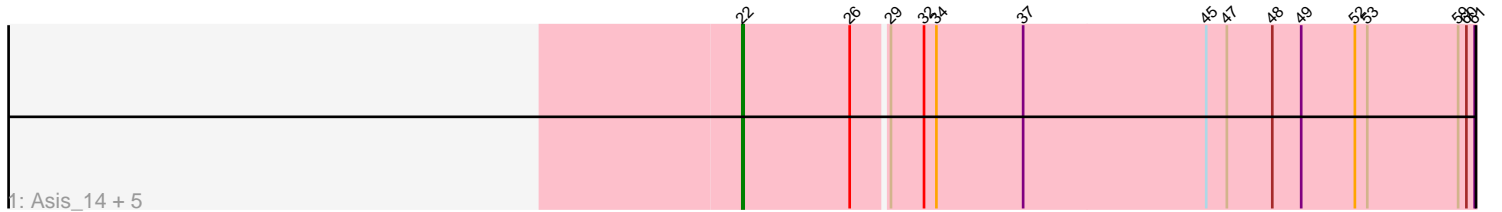


# Zoomed Pham 171913



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 171913 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171913 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Asis\_14, Maih\_14, Salete\_14, TP1604\_14, BabyGotBac\_14, BayC\_14
- Track 2 : Mischief19\_16
- Track 3 : RainyPolka\_15
- Track 4 : Abt2graduatex2\_15
- Track 5 : YDN12\_15
- Track 6 : Xkcd426\_15
- Track 7 : TurkishDelight\_18

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

The start number called the most often in the published annotations is 22, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abt2graduatex2\_15, Asis\_14, BabyGotBac\_14, BayC\_14, Maih\_14, Mischief19\_16, RainyPolka\_15, Salete\_14, TP1604\_14, TurkishDelight\_18, Xkcd426\_15, YDN12\_15,

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

- 

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

- 

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

Start 22:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2\_15 (BG), Asis\_14 (BG), BabyGotBac\_14 (BG), BayC\_14 (BG), Maih\_14 (BG), Mischief19\_16 (BG), RainyPolka\_15 (BG), Salete\_14 (BG), TP1604\_14 (BG), TurkishDelight\_18 (singleton), Xkcd426\_15 (BG), YDN12\_15 (BG),

## Summary by clusters:

There are 2 clusters represented in this pham: singleton, BG,

Info for manual annotations of cluster BG:

•Start number 22 was manually annotated 10 times for cluster BG.

### **Gene Information:**

Gene: Abt2graduatex2\_15 Start: 16020, Stop: 16913, Start Num: 22

Candidate Starts for Abt2graduatex2\_15:

(1, 15447), (2, 15624), (3, 15642), (4, 15654), (5, 15714), (6, 15720), (7, 15741), (8, 15759), (9, 15762), (10, 15813), (11, 15843), (12, 15855), (13, 15864), (14, 15873), (15, 15882), (16, 15891), (17, 15894), (18, 15918), (19, 15951), (20, 15993), (Start: 22 @16020 has 11 MA's), (23, 16035), (26, 16098), (29, 16122), (32, 16146), (34, 16155), (37, 16218), (38, 16227), (45, 16350), (47, 16365), (48, 16398), (49, 16419), (51, 16425), (56, 16485), (59, 16533), (60, 16539), (63, 16575), (69, 16692), (70, 16716), (72, 16734), (77, 16797), (79, 16818), (80, 16836),

Gene: Asis\_14 Start: 15544, Stop: 16440, Start Num: 22

Candidate Starts for Asis\_14:

(Start: 22 @15544 has 11 MA's), (26, 15622), (29, 15646), (32, 15670), (34, 15679), (37, 15742), (45, 15874), (47, 15889), (48, 15922), (49, 15943), (52, 15982), (53, 15991), (59, 16057), (60, 16063), (61, 16069), (63, 16099), (64, 16129), (66, 16153), (72, 16258), (75, 16291), (79, 16342), (80, 16360), (85, 16399), (87, 16426),

Gene: BabyGotBac\_14 Start: 15544, Stop: 16440, Start Num: 22

Candidate Starts for BabyGotBac\_14:

(Start: 22 @15544 has 11 MA's), (26, 15622), (29, 15646), (32, 15670), (34, 15679), (37, 15742), (45, 15874), (47, 15889), (48, 15922), (49, 15943), (52, 15982), (53, 15991), (59, 16057), (60, 16063), (61, 16069), (63, 16099), (64, 16129), (66, 16153), (72, 16258), (75, 16291), (79, 16342), (80, 16360), (85, 16399), (87, 16426),

Gene: BayC\_14 Start: 15544, Stop: 16440, Start Num: 22

Candidate Starts for BayC\_14:

(Start: 22 @15544 has 11 MA's), (26, 15622), (29, 15646), (32, 15670), (34, 15679), (37, 15742), (45, 15874), (47, 15889), (48, 15922), (49, 15943), (52, 15982), (53, 15991), (59, 16057), (60, 16063), (61, 16069), (63, 16099), (64, 16129), (66, 16153), (72, 16258), (75, 16291), (79, 16342), (80, 16360), (85, 16399), (87, 16426),

Gene: Maih\_14 Start: 15543, Stop: 16439, Start Num: 22

Candidate Starts for Maih\_14:

(Start: 22 @15543 has 11 MA's), (26, 15621), (29, 15645), (32, 15669), (34, 15678), (37, 15741), (45, 15873), (47, 15888), (48, 15921), (49, 15942), (52, 15981), (53, 15990), (59, 16056), (60, 16062), (61, 16068), (63, 16098), (64, 16128), (66, 16152), (72, 16257), (75, 16290), (79, 16341), (80, 16359), (85, 16398), (87, 16425),

Gene: Mischief19\_16 Start: 18095, Stop: 18940, Start Num: 22

Candidate Starts for Mischief19\_16:

(21, 18086), (Start: 22 @18095 has 11 MA's), (24, 18116), (25, 18122), (40, 18308), (42, 18362), (45, 18413), (47, 18428), (55, 18542), (57, 18551), (62, 18623), (66, 18689), (72, 18776), (73, 18782), (74, 18806), (80, 18878), (81, 18887), (82, 18899), (84, 18911),

Gene: RainyPolka\_15 Start: 15874, Stop: 16773, Start Num: 22

Candidate Starts for RainyPolka\_15:

(20, 15847), (Start: 22 @15874 has 11 MA's), (26, 15952), (29, 15976), (32, 16000), (34, 16009), (37, 16072), (39, 16090), (45, 16204), (47, 16219), (48, 16252), (49, 16273), (52, 16312), (53, 16321), (59, 16387), (60, 16393), (63, 16429), (65, 16480), (66, 16483), (68, 16510), (72, 16588), (77, 16651), (80, 16690), (82, 16711), (85, 16729), (88, 16762),

Gene: Salete\_14 Start: 15544, Stop: 16440, Start Num: 22

Candidate Starts for Salete\_14:

(Start: 22 @15544 has 11 MA's), (26, 15622), (29, 15646), (32, 15670), (34, 15679), (37, 15742), (45, 15874), (47, 15889), (48, 15922), (49, 15943), (52, 15982), (53, 15991), (59, 16057), (60, 16063), (61, 16069), (63, 16099), (64, 16129), (66, 16153), (72, 16258), (75, 16291), (79, 16342), (80, 16360), (85, 16399), (87, 16426),

Gene: TP1604\_14 Start: 15544, Stop: 16440, Start Num: 22

Candidate Starts for TP1604\_14:

(Start: 22 @15544 has 11 MA's), (26, 15622), (29, 15646), (32, 15670), (34, 15679), (37, 15742), (45, 15874), (47, 15889), (48, 15922), (49, 15943), (52, 15982), (53, 15991), (59, 16057), (60, 16063), (61, 16069), (63, 16099), (64, 16129), (66, 16153), (72, 16258), (75, 16291), (79, 16342), (80, 16360), (85, 16399), (87, 16426),

Gene: TurkishDelight\_18 Start: 14791, Stop: 15639, Start Num: 22

Candidate Starts for TurkishDelight\_18:

(Start: 22 @14791 has 11 MA's), (23, 14803), (27, 14881), (28, 14887), (30, 14908), (31, 14914), (33, 14923), (35, 14944), (44, 15112), (46, 15133), (50, 15196), (51, 15199), (58, 15286), (67, 15421), (76, 15538), (79, 15568), (80, 15586), (83, 15607), (85, 15622), (86, 15625),

Gene: Xkcd426\_15 Start: 16526, Stop: 17386, Start Num: 22

Candidate Starts for Xkcd426\_15:

(Start: 22 @16526 has 11 MA's), (23, 16541), (36, 16688), (38, 16718), (43, 16811), (45, 16841), (48, 16889), (54, 16967), (62, 17054), (63, 17066), (71, 17210), (72, 17222), (74, 17252), (78, 17288),

Gene: YDN12\_15 Start: 15481, Stop: 16377, Start Num: 22

Candidate Starts for YDN12\_15:

(Start: 22 @15481 has 11 MA's), (26, 15559), (29, 15583), (32, 15607), (37, 15679), (41, 15742), (47, 15826), (48, 15859), (49, 15880), (52, 15919), (53, 15928), (60, 16000), (63, 16036), (64, 16066), (66, 16090), (75, 16228), (77, 16258), (78, 16261), (79, 16279), (80, 16297), (85, 16336), (87, 16363),