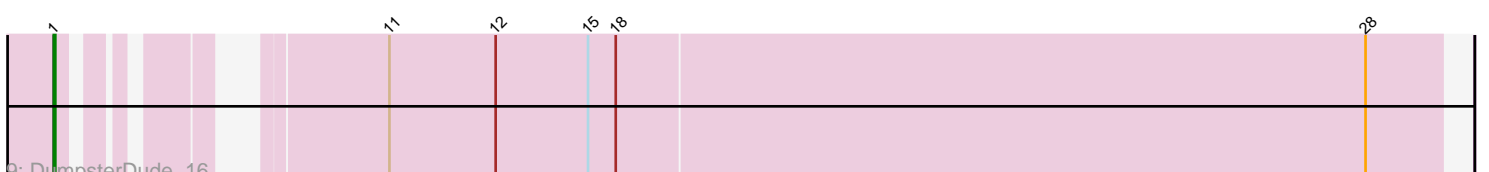
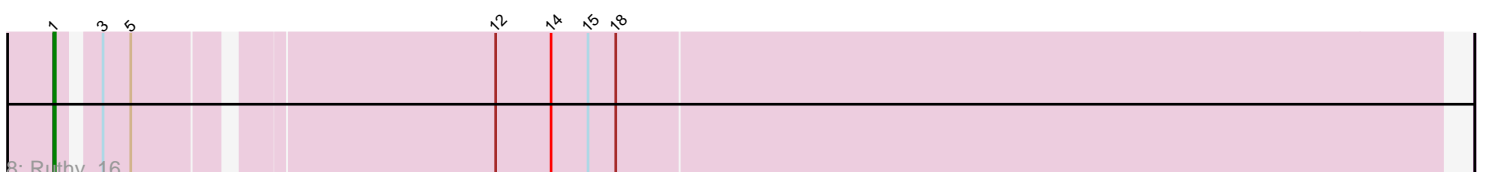
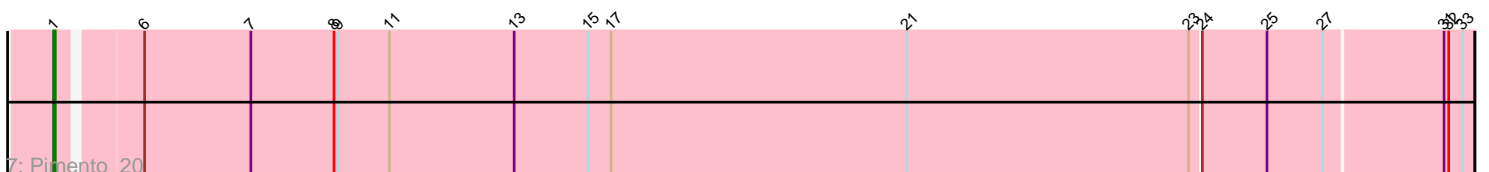
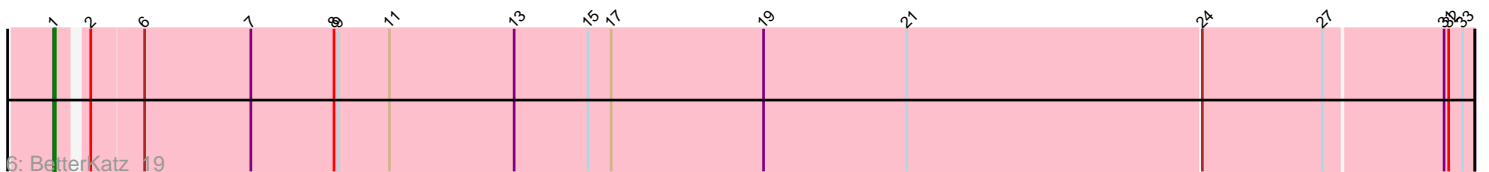
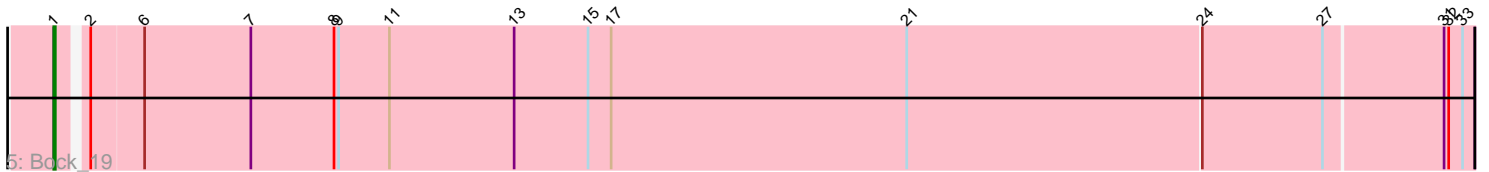
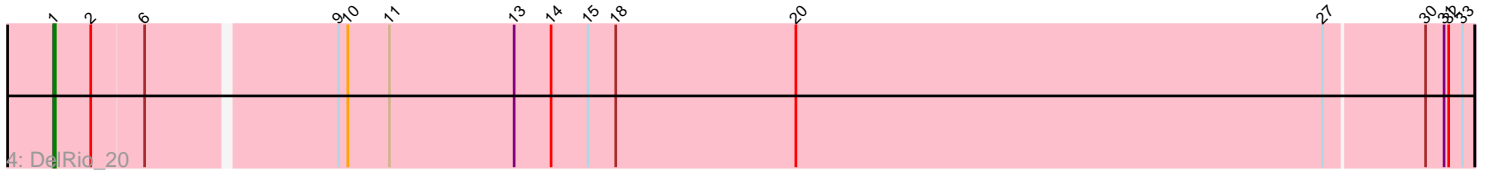
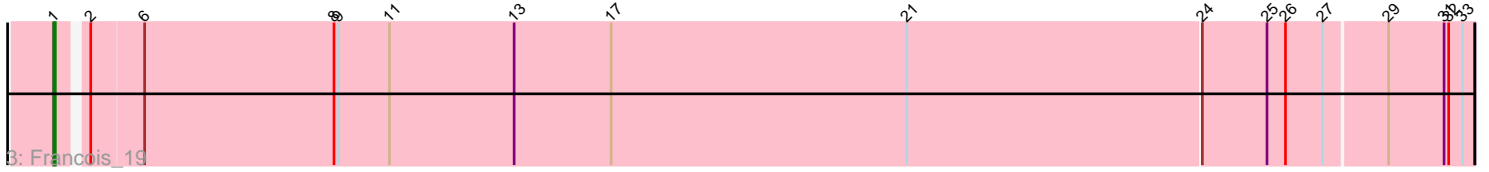
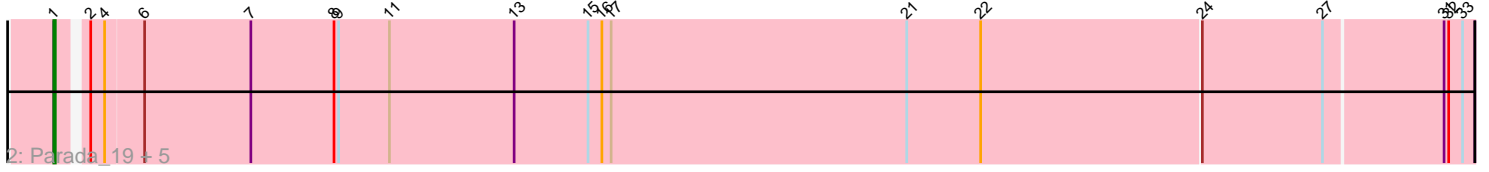
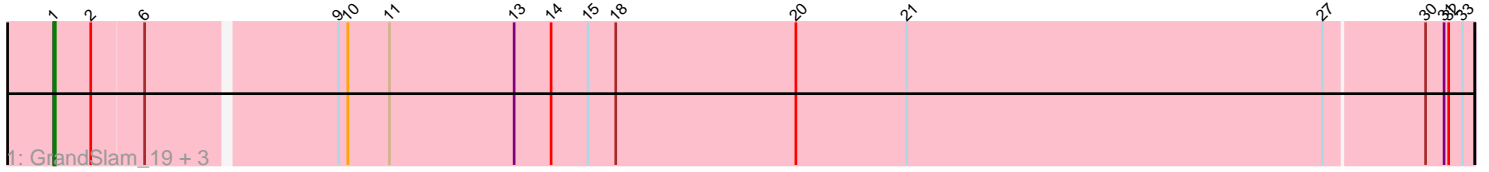


Pham 214720



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 214720 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214720 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : GrandSlam\_19, Ayotoya\_19, Chop\_19, Hamood\_19
- Track 2 : Parada\_19, Nadeem\_19, Brylie\_19, WheatThin\_18, NancyRae\_19, Mulch\_19
- Track 3 : Francois\_19
- Track 4 : DelRio\_20
- Track 5 : Bock\_19
- Track 6 : BetterKatz\_19
- Track 7 : Pimento\_20
- Track 8 : Ruthy\_16
- Track 9 : DumpsterDude\_16

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

The start number called the most often in the published annotations is 1, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_19, BetterKatz\_19, Bock\_19, Brylie\_19, Chop\_19, DelRio\_20, DumpsterDude\_16, Francois\_19, GrandSlam\_19, Hamood\_19, Mulch\_19, Nadeem\_19, NancyRae\_19, Parada\_19, Pimento\_20, Ruthy\_16, WheatThin\_18,

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 1:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Ayotoya\_19 (DI), BetterKatz\_19 (DI), Bock\_19 (DI), Brylie\_19 (DI), Chop\_19 (DI), DelRio\_20 (DI), DumpsterDude\_16 (DW), Francois\_19 (DI), GrandSlam\_19 (DI), Hamood\_19 (DI), Mulch\_19 (DI), Nadeem\_19 (DI), NancyRae\_19 (DI), Parada\_19 (DI), Pimento\_20 (DI), Ruthy\_16 (DW), WheatThin\_18 (DI),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DW, DI,

Info for manual annotations of cluster DI:

- Start number 1 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DW:

- Start number 1 was manually annotated 2 times for cluster DW.

### **Gene Information:**

Gene: Ayotoya\_19 Start: 10919, Stop: 11826, Start Num: 1

Candidate Starts for Ayotoya\_19:

(Start: 1 @10919 has 17 MA's), (2, 10943), (6, 10976), (9, 11093), (10, 11099), (11, 11126), (13, 11207), (14, 11231), (15, 11255), (18, 11273), (20, 11390), (21, 11462), (27, 11732), (30, 11795), (31, 11807), (32, 11810), (33, 11819),

Gene: BetterKatz\_19 Start: 10860, Stop: 11764, Start Num: 1

Candidate Starts for BetterKatz\_19:

(Start: 1 @10860 has 17 MA's), (2, 10875), (6, 10908), (7, 10977), (8, 11031), (9, 11034), (11, 11067), (13, 11148), (15, 11196), (17, 11211), (19, 11310), (21, 11403), (24, 11592), (27, 11670), (31, 11745), (32, 11748), (33, 11757),

Gene: Bock\_19 Start: 10610, Stop: 11514, Start Num: 1

Candidate Starts for Bock\_19:

(Start: 1 @10610 has 17 MA's), (2, 10625), (6, 10658), (7, 10727), (8, 10781), (9, 10784), (11, 10817), (13, 10898), (15, 10946), (17, 10961), (21, 11153), (24, 11342), (27, 11420), (31, 11495), (32, 11498), (33, 11507),

Gene: Brylie\_19 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for Brylie\_19:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),

Gene: Chop\_19 Start: 10667, Stop: 11574, Start Num: 1

Candidate Starts for Chop\_19:

(Start: 1 @10667 has 17 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (27, 11480), (30, 11543), (31, 11555), (32, 11558), (33, 11567),

Gene: DelRio\_20 Start: 11141, Stop: 12048, Start Num: 1

Candidate Starts for DelRio\_20:

(Start: 1 @11141 has 17 MA's), (2, 11165), (6, 11198), (9, 11315), (10, 11321), (11, 11348), (13, 11429), (14, 11453), (15, 11477), (18, 11495), (20, 11612), (27, 11954), (30, 12017), (31, 12029), (32, 12032), (33, 12041),

Gene: DumpsterDude\_16 Start: 9345, Stop: 10174, Start Num: 1

Candidate Starts for DumpsterDude\_16:

(Start: 1 @9345 has 17 MA's), (11, 9495), (12, 9564), (15, 9624), (18, 9642), (28, 10125),

Gene: Francois\_19 Start: 10624, Stop: 11528, Start Num: 1

Candidate Starts for Francois\_19:

(Start: 1 @10624 has 17 MA's), (2, 10639), (6, 10672), (8, 10795), (9, 10798), (11, 10831), (13, 10912), (17, 10975), (21, 11167), (24, 11356), (25, 11398), (26, 11410), (27, 11434), (29, 11473), (31, 11509), (32, 11512), (33, 11521),

Gene: GrandSlam\_19 Start: 10667, Stop: 11574, Start Num: 1

Candidate Starts for GrandSlam\_19:

(Start: 1 @10667 has 17 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (27, 11480), (30, 11543), (31, 11555), (32, 11558), (33, 11567),

Gene: Hamood\_19 Start: 10667, Stop: 11574, Start Num: 1

Candidate Starts for Hamood\_19:

(Start: 1 @10667 has 17 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (27, 11480), (30, 11543), (31, 11555), (32, 11558), (33, 11567),

Gene: Mulch\_19 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for Mulch\_19:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),

Gene: Nadeem\_19 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for Nadeem\_19:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),

Gene: NancyRae\_19 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for NancyRae\_19:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),

Gene: Parada\_19 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for Parada\_19:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),

Gene: Pimento\_20 Start: 10811, Stop: 11715, Start Num: 1

Candidate Starts for Pimento\_20:

(Start: 1 @10811 has 17 MA's), (6, 10859), (7, 10928), (8, 10982), (9, 10985), (11, 11018), (13, 11099), (15, 11147), (17, 11162), (21, 11354), (23, 11537), (24, 11543), (25, 11585), (27, 11621), (31, 11696), (32, 11699), (33, 11708),

Gene: Ruthy\_16 Start: 9419, Stop: 10284, Start Num: 1

Candidate Starts for Ruthy\_16:

(Start: 1 @9419 has 17 MA's), (3, 9440), (5, 9458), (12, 9674), (14, 9710), (15, 9734), (18, 9752),

Gene: WheatThin\_18 Start: 10607, Stop: 11511, Start Num: 1

Candidate Starts for WheatThin\_18:

(Start: 1 @10607 has 17 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (22, 11198), (24, 11339), (27, 11417), (31, 11492), (32, 11495), (33, 11504),