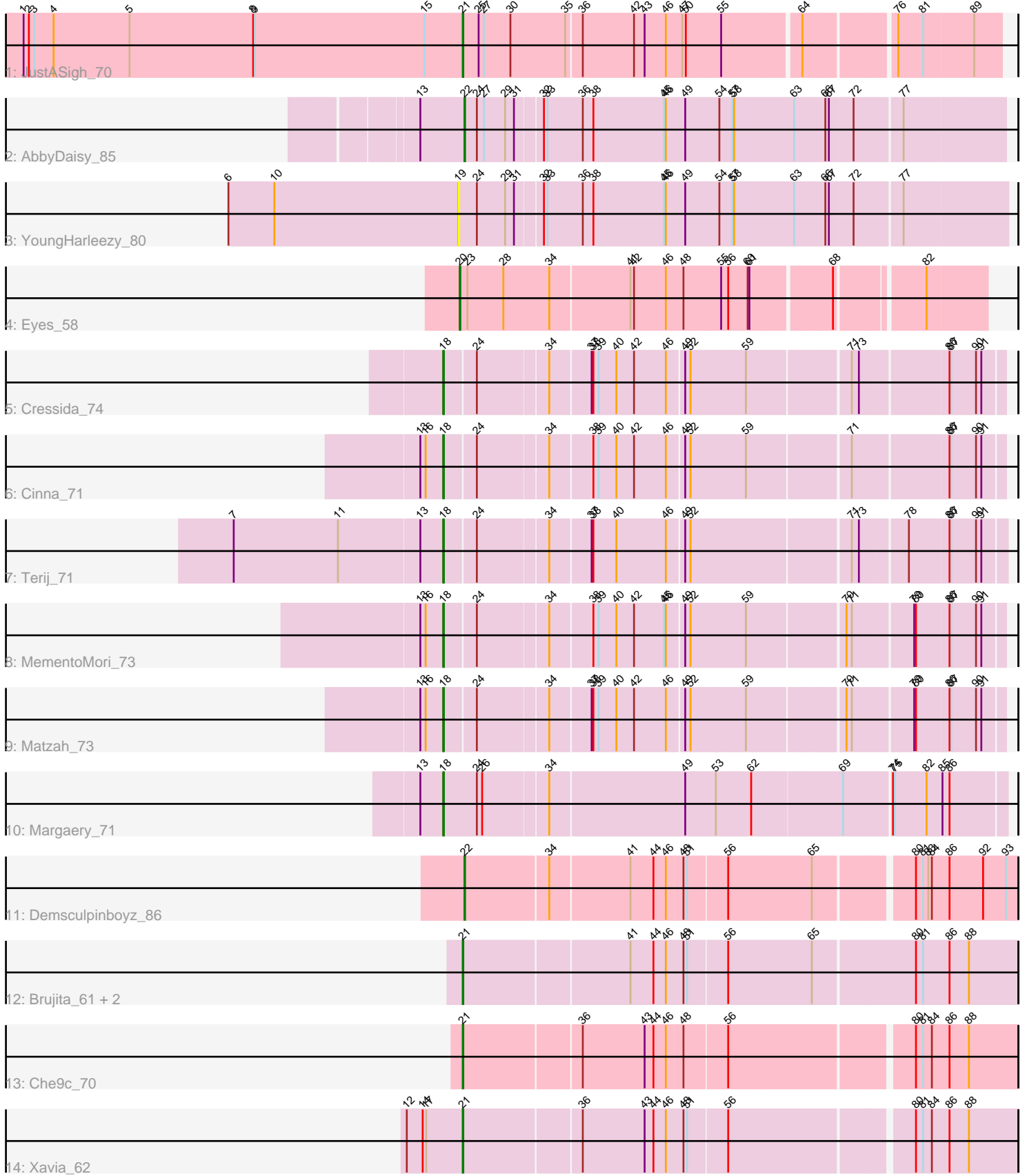


Pham 191596



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 191596 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191596 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : JustASigh\_70
- Track 2 : AbbyDaisy\_85
- Track 3 : YoungHarleezy\_80
- Track 4 : Eyes\_58
- Track 5 : Cressida\_74
- Track 6 : Cinna\_71
- Track 7 : Terij\_71
- Track 8 : MementoMori\_73
- Track 9 : Matzah\_73
- Track 10 : Margaery\_71
- Track 11 : Demsculpinboyz\_86
- Track 12 : Brujita\_61, Island3\_62, EleanorGeorge\_75
- Track 13 : Che9c\_70
- Track 14 : Xavia\_62

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

The start number called the most often in the published annotations is 18, it was called in 6 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna\_71, Cressida\_74, Margaery\_71, Matzah\_73, MementoMori\_73, Terij\_71,

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

- 

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

- AbbyDaisy\_85, Brujita\_61, Che9c\_70, Demsculpinboyz\_86, EleanorGeorge\_75, Eyes\_58, Island3\_62, JustASigh\_70, Xavia\_62, YoungHarleezy\_80,

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

Start 18:

- Found in 6 of 16 ( 37.5% ) of genes in pham

- Manual Annotations of this start: 6 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna\_71 (EI), Cressida\_74 (EI), Margaery\_71 (EI), Matzah\_73 (EI), MementoMori\_73 (EI), Terij\_71 (EI),

Start 19:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: YoungHarleezy\_80 (AY),

Start 20:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eyes\_58 (DB),

Start 21:

- Found in 6 of 16 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 6 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita\_61 (I1), Che9c\_70 (I2), EleanorGeorge\_75 (F1), Island3\_62 (I1), JustASigh\_70 (AH), Xavia\_62 (P3),

Start 22:

- Found in 2 of 16 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_85 (AY), Demsculpinboyz\_86 (F2),

### **Summary by clusters:**

There are 9 clusters represented in this pham: P3, F2, EI, F1, I1, AH, I2, DB, AY,

Info for manual annotations of cluster AH:

- Start number 21 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AY:

- Start number 22 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DB:

- Start number 20 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster EI:

- Start number 18 was manually annotated 6 times for cluster EI.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 22 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster I1:

- Start number 21 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 21 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster P3:

- Start number 21 was manually annotated 1 time for cluster P3.

### **Gene Information:**

Gene: AbbyDaisy\_85 Start: 48805, Stop: 49686, Start Num: 22

Candidate Starts for AbbyDaisy\_85:

(13, 48733), (Start: 22 @48805 has 2 MA's), (24, 48826), (27, 48838), (29, 48871), (31, 48886), (32, 48928), (33, 48934), (36, 48994), (38, 49012), (45, 49132), (46, 49135), (49, 49168), (54, 49225), (57, 49246), (58, 49249), (63, 49348), (66, 49399), (67, 49405), (72, 49441), (77, 49519),

Gene: Brujita\_61 Start: 39754, Stop: 40662, Start Num: 21

Candidate Starts for Brujita\_61:

(Start: 21 @39754 has 6 MA's), (41, 40027), (44, 40066), (46, 40087), (48, 40114), (51, 40120), (56, 40183), (65, 40324), (80, 40489), (81, 40501), (86, 40546), (88, 40579),

Gene: Che9c\_70 Start: 49481, Stop: 50374, Start Num: 21

Candidate Starts for Che9c\_70:

(Start: 21 @49481 has 6 MA's), (36, 49673), (43, 49778), (44, 49793), (46, 49814), (48, 49841), (56, 49910), (80, 50201), (81, 50213), (84, 50228), (86, 50258), (88, 50291),

Gene: Cinna\_71 Start: 45361, Stop: 46236, Start Num: 18

Candidate Starts for Cinna\_71:

(13, 45322), (16, 45331), (Start: 18 @45361 has 6 MA's), (24, 45409), (34, 45523), (38, 45592), (39, 45601), (40, 45631), (42, 45661), (46, 45715), (49, 45742), (52, 45751), (59, 45838), (71, 45997), (86, 46150), (87, 46153), (90, 46192), (91, 46201),

Gene: Cressida\_74 Start: 44976, Stop: 45851, Start Num: 18

Candidate Starts for Cressida\_74:

(Start: 18 @44976 has 6 MA's), (24, 45024), (34, 45138), (37, 45204), (38, 45207), (39, 45216), (40, 45246), (42, 45276), (46, 45330), (49, 45357), (52, 45366), (59, 45453), (71, 45612), (73, 45624), (86, 45765), (87, 45768), (90, 45807), (91, 45816),

Gene: Demsculpinboyz\_86 Start: 45706, Stop: 46596, Start Num: 22

Candidate Starts for Demsculpinboyz\_86:

(Start: 22 @45706 has 2 MA's), (34, 45844), (41, 45976), (44, 46015), (46, 46036), (48, 46063), (51, 46069), (56, 46132), (65, 46273), (80, 46423), (81, 46435), (83, 46444), (84, 46450), (86, 46480), (92, 46537), (93, 46576),

Gene: EleanorGeorge\_75 Start: 46457, Stop: 47365, Start Num: 21

Candidate Starts for EleanorGeorge\_75:

(Start: 21 @46457 has 6 MA's), (41, 46730), (44, 46769), (46, 46790), (48, 46817), (51, 46823), (56, 46886), (65, 47027), (80, 47192), (81, 47204), (86, 47249), (88, 47282),

Gene: Eyes\_58 Start: 41523, Stop: 42362, Start Num: 20

Candidate Starts for Eyes\_58:

(Start: 20 @41523 has 1 MA's), (23, 41535), (28, 41595), (34, 41673), (41, 41805), (42, 41811), (46, 41865), (48, 41895), (55, 41955), (56, 41967), (60, 42000), (61, 42003), (68, 42132), (82, 42264),

Gene: Island3\_62 Start: 39754, Stop: 40662, Start Num: 21

Candidate Starts for Island3\_62:

(Start: 21 @39754 has 6 MA's), (41, 40027), (44, 40066), (46, 40087), (48, 40114), (51, 40120), (56, 40183), (65, 40324), (80, 40489), (81, 40501), (86, 40546), (88, 40579),

Gene: JustASigh\_70 Start: 45511, Stop: 46377, Start Num: 21

Candidate Starts for JustASigh\_70:

(1, 44767), (2, 44776), (3, 44785), (4, 44818), (5, 44947), (8, 45157), (9, 45160), (15, 45448), (Start: 21 @45511 has 6 MA's), (25, 45538), (27, 45547), (30, 45592), (35, 45685), (36, 45709), (42, 45796), (43, 45814), (46, 45850), (47, 45877), (50, 45883), (55, 45940), (64, 46066), (76, 46207), (81, 46249), (89, 46333),

Gene: Margaery\_71 Start: 44860, Stop: 45768, Start Num: 18

Candidate Starts for Margaery\_71:

(13, 44821), (Start: 18 @44860 has 6 MA's), (24, 44917), (26, 44926), (34, 45031), (49, 45256), (53, 45304), (62, 45361), (69, 45508), (74, 45586), (75, 45589), (82, 45643), (85, 45667), (86, 45679),

Gene: Matzah\_73 Start: 45428, Stop: 46303, Start Num: 18

Candidate Starts for Matzah\_73:

(13, 45389), (16, 45398), (Start: 18 @45428 has 6 MA's), (24, 45476), (34, 45590), (37, 45656), (38, 45659), (39, 45668), (40, 45698), (42, 45728), (46, 45782), (49, 45809), (52, 45818), (59, 45905), (70, 46055), (71, 46064), (79, 46160), (80, 46163), (86, 46217), (87, 46220), (90, 46259), (91, 46268),

Gene: MementoMori\_73 Start: 45316, Stop: 46191, Start Num: 18

Candidate Starts for MementoMori\_73:

(13, 45277), (16, 45286), (Start: 18 @45316 has 6 MA's), (24, 45364), (34, 45478), (38, 45547), (39, 45556), (40, 45586), (42, 45616), (45, 45667), (46, 45670), (49, 45697), (52, 45706), (59, 45793), (70, 45943), (71, 45952), (79, 46048), (80, 46051), (86, 46105), (87, 46108), (90, 46147), (91, 46156),

Gene: Terij\_71 Start: 43915, Stop: 44793, Start Num: 18

Candidate Starts for Terij\_71:

(7, 43564), (11, 43741), (13, 43876), (Start: 18 @43915 has 6 MA's), (24, 43963), (34, 44077), (37, 44143), (38, 44146), (40, 44185), (46, 44269), (49, 44296), (52, 44305), (71, 44551), (73, 44563), (78, 44638), (86, 44704), (87, 44707), (90, 44746), (91, 44755),

Gene: Xavia\_62 Start: 44650, Stop: 45543, Start Num: 21

Candidate Starts for Xavia\_62:

(12, 44557), (14, 44584), (17, 44590), (Start: 21 @44650 has 6 MA's), (36, 44842), (43, 44947), (44, 44962), (46, 44983), (48, 45010), (51, 45016), (56, 45079), (80, 45370), (81, 45382), (84, 45397), (86, 45427), (88, 45460),

Gene: YoungHarleezy\_80 Start: 46570, Stop: 47463, Start Num: 19

Candidate Starts for YoungHarleezy\_80:

(6, 46183), (10, 46261), (19, 46570), (24, 46600), (29, 46645), (31, 46660), (32, 46702), (33, 46708), (36, 46768), (38, 46786), (45, 46906), (46, 46909), (49, 46942), (54, 46999), (57, 47020), (58, 47023), (63, 47122), (66, 47173), (67, 47179), (72, 47215), (77, 47293),