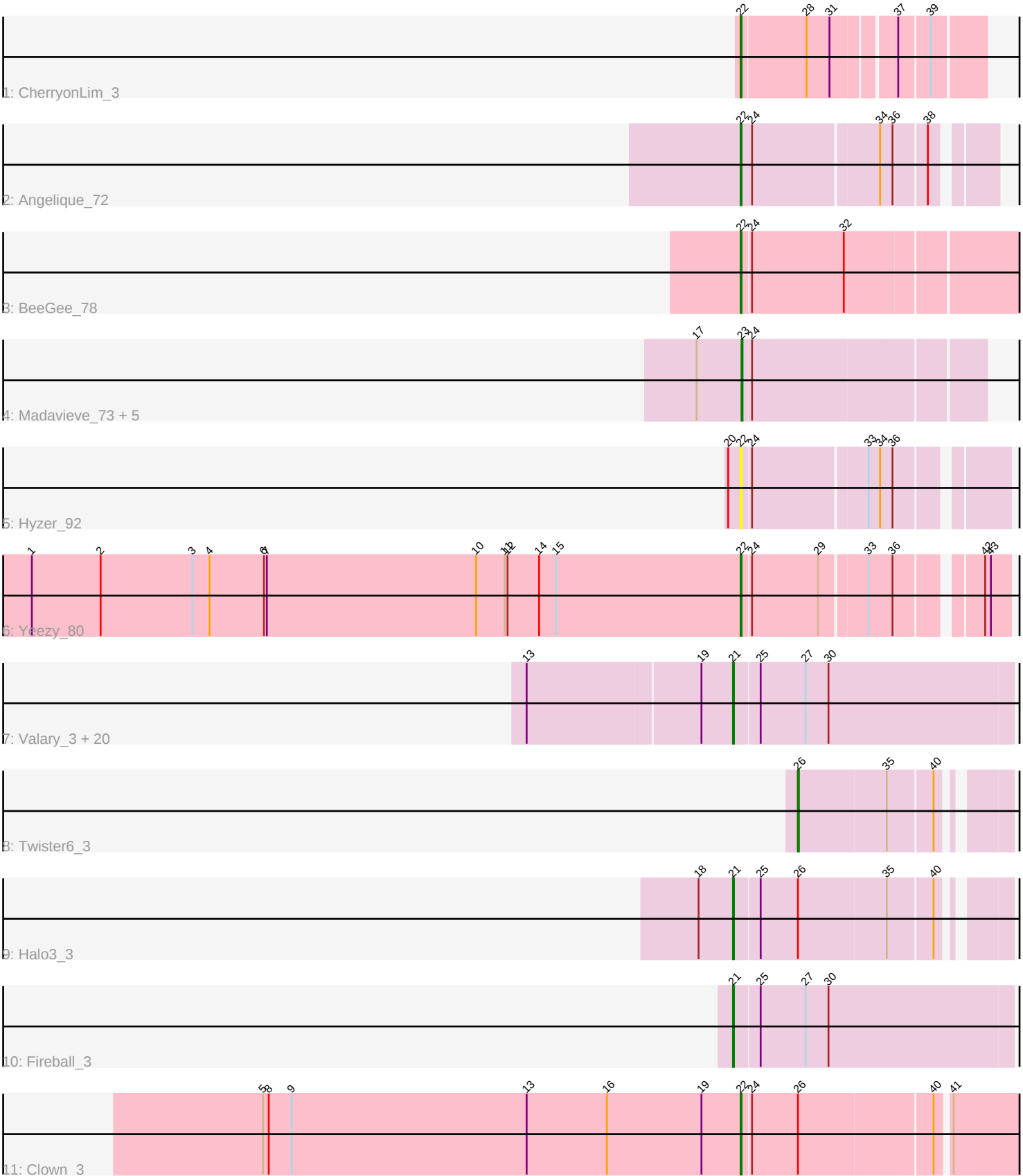


Pham 278405



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 278405 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278405 has 36 members, 4 are drafts.

Phages represented in each track:

- Track 1 : CherryonLim\_3
- Track 2 : Angelique\_72
- Track 3 : BeeGee\_78
- Track 4 : Madavieve\_73, Zirinka\_72, BoyNamedSue\_75, Bialota\_72, AlumE\_75, Maridalia\_77
- Track 5 : Hyzer\_92
- Track 6 : Yeezy\_80
- Track 7 : Valary\_3, Nubi\_3, Wizard\_3, Portcullis\_3, Egi03\_3, CoveyB\_3, ClamChowder\_3, Arri\_3, YungMoney\_3, Fugax\_3, Barb\_3, Gezellig\_3, CherryCola\_3, Danyall\_3, PullumCavea\_3, KimmyK\_3, Shinji\_3, PinkCoffee\_3, RogerDodger\_3, Mutzi\_3, Phlop\_3
- Track 8 : Twister6\_3
- Track 9 : Halo3\_3
- Track 10 : Fireball\_3
- Track 11 : Clown\_3

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

The start number called the most often in the published annotations is 21, it was called in 21 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_3, Barb\_3, CherryCola\_3, ClamChowder\_3, CoveyB\_3, Danyall\_3, Egi03\_3, Fireball\_3, Fugax\_3, Gezellig\_3, Halo3\_3, KimmyK\_3, Mutzi\_3, Nubi\_3, Phlop\_3, PinkCoffee\_3, Portcullis\_3, PullumCavea\_3, RogerDodger\_3, Shinji\_3, Valary\_3, Wizard\_3, YungMoney\_3,

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

- 

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

- AlumE\_75, Angelique\_72, BeeGee\_78, Bialota\_72, BoyNamedSue\_75, CherryonLim\_3, Clown\_3, Hyzer\_92, Madavieve\_73, Maridalia\_77, Twister6\_3, Yeezy\_80, Zirinka\_72,

## Summary by start number:

### Start 21:

- Found in 23 of 36 ( 63.9% ) of genes in pham
- Manual Annotations of this start: 21 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_3 (DC1), Barb\_3 (DC1), CherryCola\_3 (DC1), ClamChowder\_3 (DC1), CoveyB\_3 (DC1), Danyall\_3 (DC1), Egi03\_3 (DC1), Fireball\_3 (DC1), Fugax\_3 (DC1), Gezellig\_3 (DC1), Halo3\_3 (DC1), KimmyK\_3 (DC1), Mutzi\_3 (DC1), Nubi\_3 (DC1), Phlop\_3 (DC1), PinkCoffee\_3 (DC1), Portcullis\_3 (DC1), PullumCavea\_3 (DC1), RogerDodger\_3 (DC1), Shinji\_3 (DC1), Valary\_3 (DC1), Wizard\_3 (DC1), YungMoney\_3 (DC1),

### Start 22:

- Found in 6 of 36 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 5 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique\_72 (CY1), BeeGee\_78 (CY5), CherryonLim\_3 (CT), Clown\_3 (DC2), Hyzer\_92 (CZ1), Yeezy\_80 (CZ3),

### Start 23:

- Found in 6 of 36 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 5 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlumE\_75 (CZ1), Bialota\_72 (CZ1), BoyNamedSue\_75 (CZ1), Madavieve\_73 (CZ1), Maridalia\_77 (CZ1), Zirinka\_72 (CZ1),

### Start 26:

- Found in 3 of 36 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Twister6\_3 (DC1),

## Summary by clusters:

There are 7 clusters represented in this pham: CY1, CY5, CZ3, CZ1, DC1, DC2, CT,

Info for manual annotations of cluster CT:

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

Info for manual annotations of cluster CY1:

- Start number 22 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY5:

- Start number 22 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CZ1:

- Start number 23 was manually annotated 5 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 22 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster DC1:

- Start number 21 was manually annotated 21 times for cluster DC1.
- Start number 26 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 22 was manually annotated 1 time for cluster DC2.

### **Gene Information:**

Gene: AlumE\_75 Start: 49953, Stop: 50195, Start Num: 23

Candidate Starts for AlumE\_75:

(17, 49908), (Start: 23 @49953 has 5 MA's), (24, 49962),

Gene: Angelique\_72 Start: 49148, Stop: 49384, Start Num: 22

Candidate Starts for Angelique\_72:

(Start: 22 @49148 has 5 MA's), (24, 49160), (34, 49286), (36, 49298), (38, 49328),

Gene: Arri\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Arri\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Barb\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Barb\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: BeeGee\_78 Start: 49466, Stop: 49747, Start Num: 22

Candidate Starts for BeeGee\_78:

(Start: 22 @49466 has 5 MA's), (24, 49475), (32, 49571),

Gene: Bialota\_72 Start: 49404, Stop: 49646, Start Num: 23

Candidate Starts for Bialota\_72:

(17, 49359), (Start: 23 @49404 has 5 MA's), (24, 49413),

Gene: BoyNamedSue\_75 Start: 49953, Stop: 50195, Start Num: 23

Candidate Starts for BoyNamedSue\_75:

(17, 49908), (Start: 23 @49953 has 5 MA's), (24, 49962),

Gene: CherryCola\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for CherryCola\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: CherryonLim\_3 Start: 977, Stop: 1207, Start Num: 22

Candidate Starts for CherryonLim\_3:

(Start: 22 @977 has 5 MA's), (28, 1043), (31, 1067), (37, 1124), (39, 1154),

Gene: ClamChowder\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for ClamChowder\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Clown\_3 Start: 1189, Stop: 1464, Start Num: 22

Candidate Starts for Clown\_3:

(5, 691), (8, 697), (9, 721), (13, 967), (16, 1051), (19, 1150), (Start: 22 @1189 has 5 MA's), (24, 1198), (Start: 26 @1246 has 1 MA's), (40, 1381), (41, 1393),

Gene: CoveyB\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for CoveyB\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Danyall\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Danyall\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Egi03\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Egi03\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Fireball\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Fireball\_3:

(Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Fugax\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Fugax\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Gezellig\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Gezellig\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Halo3\_3 Start: 1067, Stop: 1321, Start Num: 21

Candidate Starts for Halo3\_3:

(18, 1031), (Start: 21 @1067 has 21 MA's), (25, 1091), (Start: 26 @1130 has 1 MA's), (35, 1220), (40, 1265),

Gene: Hyzer\_92 Start: 57378, Stop: 57623, Start Num: 22

Candidate Starts for Hyzer\_92:

(20, 57369), (Start: 22 @57378 has 5 MA's), (24, 57387), (33, 57501), (34, 57513), (36, 57525),

Gene: KimmyK\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for KimmyK\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Madavieve\_73 Start: 49113, Stop: 49355, Start Num: 23

Candidate Starts for Madavieve\_73:

(17, 49068), (Start: 23 @49113 has 5 MA's), (24, 49122),

Gene: Maridalia\_77 Start: 48993, Stop: 49235, Start Num: 23

Candidate Starts for Maridalia\_77:

(17, 48948), (Start: 23 @48993 has 5 MA's), (24, 49002),

Gene: Mutzi\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Mutzi\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Nubi\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Nubi\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Phlop\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Phlop\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: PinkCoffee\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for PinkCoffee\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Portcullis\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Portcullis\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: PullumCavea\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for PullumCavea\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: RogerDodger\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for RogerDodger\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Shinji\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Shinji\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Twister6\_3 Start: 1126, Stop: 1317, Start Num: 26

Candidate Starts for Twister6\_3:

(Start: 26 @1126 has 1 MA's), (35, 1216), (40, 1261),

Gene: Valary\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Valary\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Wizard\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for Wizard\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Yeezy\_80 Start: 48934, Stop: 49179, Start Num: 22

Candidate Starts for Yeezy\_80:

(1, 48196), (2, 48268), (3, 48364), (4, 48382), (6, 48439), (7, 48442), (10, 48661), (11, 48691), (12, 48694), (14, 48727), (15, 48745), (Start: 22 @48934 has 5 MA's), (24, 48943), (29, 49012), (33, 49057), (36, 49081), (42, 49153), (43, 49159),

Gene: YungMoney\_3 Start: 1064, Stop: 1348, Start Num: 21

Candidate Starts for YungMoney\_3:

(13, 854), (19, 1031), (Start: 21 @1064 has 21 MA's), (25, 1088), (27, 1133), (30, 1157),

Gene: Zirinka\_72 Start: 49392, Stop: 49634, Start Num: 23

Candidate Starts for Zirinka\_72:

(17, 49347), (Start: 23 @49392 has 5 MA's), (24, 49401),

