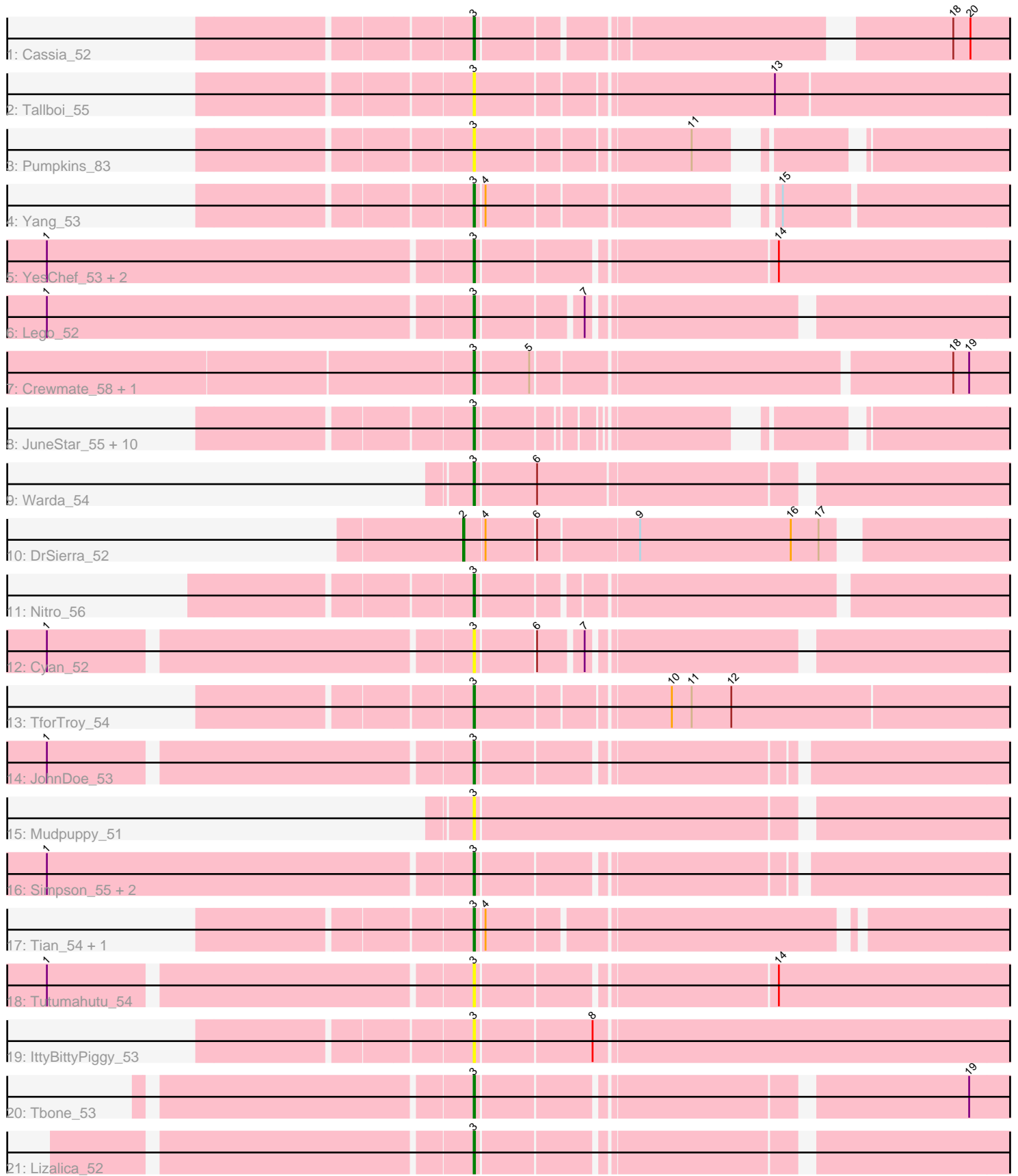


Pham 86120



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 86120 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86120 has 37 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Cassia_52
- Track 2 : Tallboi_55
- Track 3 : Pumpkins_83
- Track 4 : Yang_53
- Track 5 : YesChef_53, AGrandiflora_55, Powerpuff_55
- Track 6 : Lego_52
- Track 7 : Crewmate_58, ObiToo_57
- Track 8 : JuneStar_55, Niobe_52, Turab_51, Elezi_52, Pixelle_57, Jstan_54, AEgle_50, Adumb2043_51, Asa16_52, Eraser_52, London_52
- Track 9 : Warda_54
- Track 10 : DrSierra_52
- Track 11 : Nitro_56
- Track 12 : Cyan_52
- Track 13 : TforTroy_54
- Track 14 : JohnDoe_53
- Track 15 : Mudpuppy_51
- Track 16 : Simpson_55, Kaylissa_54, Joemato_55
- Track 17 : Tian_54, Amyev_55
- Track 18 : Tutumahutu_54
- Track 19 : IttyBittyPiggy_53
- Track 20 : Tbone_53
- Track 21 : Lizalica_52

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

The start number called the most often in the published annotations is 3, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AEgle_50, AGrandiflora_55, Adumb2043_51, Amyev_55, Asa16_52, Cassia_52, Crewmate_58, Cyan_52, Elezi_52, Eraser_52, IttyBittyPiggy_53, Joemato_55, JohnDoe_53, Jstan_54, JuneStar_55, Kaylissa_54, Lego_52, Lizalica_52, London_52, Mudpuppy_51, Niobe_52, Nitro_56, ObiToo_57, Pixelle_57, Powerpuff_55, Pumpkins_83, Simpson_55, Tallboi_55, Tbone_53, TforTroy_54,

Tian_54, Turab_51, Tutumahutu_54, Warda_54, Yang_53, YesChef_53,

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

-

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

- DrSierra_52,

Summary by start number:

Start 2:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrSierra_52 (AZ1),

Start 3:

- Found in 36 of 37 (97.3%) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_50 (AZ1), AGrandiflora_55 (AZ1), Adumb2043_51 (AZ1), Amyev_55 (AZ1), Asa16_52 (AZ1), Cassia_52 (AZ1), Crewmate_58 (AZ1), Cyan_52 (AZ1), Elezi_52 (AZ1), Eraser_52 (AZ1), IttyBittyPiggy_53 (AZ1), Joemato_55 (AZ1), JohnDoe_53 (AZ1), Jstan_54 (AZ1), JuneStar_55 (AZ1), Kaylissa_54 (AZ1), Lego_52 (AZ1), Lizalica_52 (AZ1), London_52 (AZ1), Mudpuppy_51 (AZ1), Niobe_52 (AZ1), Nitro_56 (AZ1), ObiToo_57 (AZ1), Pixelle_57 (AZ1), Powerpuff_55 (AZ1), Pumpkins_83 (AZ1), Simpson_55 (AZ1), Tallboi_55 (AZ1), Tbone_53 (AZ1), TforTroy_54 (AZ1), Tian_54 (AZ1), Turab_51 (AZ1), Tutumahutu_54 (AZ1), Warda_54 (AZ1), Yang_53 (AZ1), YesChef_53 (AZ1),

Summary by clusters:

There is one cluster represented in this pham: AZ1

Info for manual annotations of cluster AZ1:

- Start number 2 was manually annotated 1 time for cluster AZ1.
- Start number 3 was manually annotated 21 times for cluster AZ1.

Gene Information:

Gene: AEgle_50 Start: 36722, Stop: 37117, Start Num: 3

Candidate Starts for AEgle_50:

(Start: 3 @36722 has 21 MA's),

Gene: AGrandiflora_55 Start: 37868, Stop: 38278, Start Num: 3

Candidate Starts for AGrandiflora_55:

(1, 37553), (Start: 3 @37868 has 21 MA's), (14, 38078),

Gene: Adumb2043_51 Start: 36743, Stop: 37138, Start Num: 3

Candidate Starts for Adumb2043_51:

(Start: 3 @36743 has 21 MA's),

Gene: Amyev_55 Start: 40180, Stop: 40572, Start Num: 3

Candidate Starts for Amyev_55:

(Start: 3 @40180 has 21 MA's), (4, 40186),

Gene: Asa16_52 Start: 38297, Stop: 38698, Start Num: 3

Candidate Starts for Asa16_52:

(Start: 3 @38297 has 21 MA's),

Gene: Cassia_52 Start: 37488, Stop: 37874, Start Num: 3

Candidate Starts for Cassia_52:

(Start: 3 @37488 has 21 MA's), (18, 37806), (20, 37818),

Gene: Crewmate_58 Start: 39064, Stop: 39471, Start Num: 3

Candidate Starts for Crewmate_58:

(Start: 3 @39064 has 21 MA's), (5, 39103), (18, 39403), (19, 39415),

Gene: Cyan_52 Start: 37425, Stop: 37817, Start Num: 3

Candidate Starts for Cyan_52:

(1, 37122), (Start: 3 @37425 has 21 MA's), (6, 37467), (7, 37497),

Gene: DrSierra_52 Start: 36535, Stop: 36945, Start Num: 2

Candidate Starts for DrSierra_52:

(Start: 2 @36535 has 1 MA's), (4, 36550), (6, 36586), (9, 36658), (16, 36772), (17, 36793),

Gene: Elezi_52 Start: 38295, Stop: 38696, Start Num: 3

Candidate Starts for Elezi_52:

(Start: 3 @38295 has 21 MA's),

Gene: Eraser_52 Start: 38304, Stop: 38705, Start Num: 3

Candidate Starts for Eraser_52:

(Start: 3 @38304 has 21 MA's),

Gene: IttyBittyPiggy_53 Start: 37076, Stop: 37516, Start Num: 3

Candidate Starts for IttyBittyPiggy_53:

(Start: 3 @37076 has 21 MA's), (8, 37160),

Gene: Joemato_55 Start: 37505, Stop: 37900, Start Num: 3

Candidate Starts for Joemato_55:

(1, 37190), (Start: 3 @37505 has 21 MA's),

Gene: JohnDoe_53 Start: 37489, Stop: 37884, Start Num: 3

Candidate Starts for JohnDoe_53:

(1, 37186), (Start: 3 @37489 has 21 MA's),

Gene: Jstan_54 Start: 38299, Stop: 38700, Start Num: 3

Candidate Starts for Jstan_54:

(Start: 3 @38299 has 21 MA's),

Gene: JuneStar_55 Start: 40418, Stop: 40774, Start Num: 3

Candidate Starts for JuneStar_55:

(Start: 3 @40418 has 21 MA's),

Gene: Kaylissa_54 Start: 37884, Stop: 38279, Start Num: 3
Candidate Starts for Kaylissa_54:
(1, 37569), (Start: 3 @37884 has 21 MA's),

Gene: Lego_52 Start: 37204, Stop: 37596, Start Num: 3
Candidate Starts for Lego_52:
(1, 36889), (Start: 3 @37204 has 21 MA's), (7, 37276),

Gene: Lizalica_52 Start: 36949, Stop: 37347, Start Num: 3
Candidate Starts for Lizalica_52:
(Start: 3 @36949 has 21 MA's),

Gene: London_52 Start: 38295, Stop: 38696, Start Num: 3
Candidate Starts for London_52:
(Start: 3 @38295 has 21 MA's),

Gene: Mudpuppy_51 Start: 37347, Stop: 37757, Start Num: 3
Candidate Starts for Mudpuppy_51:
(Start: 3 @37347 has 21 MA's),

Gene: Niobe_52 Start: 38298, Stop: 38699, Start Num: 3
Candidate Starts for Niobe_52:
(Start: 3 @38298 has 21 MA's),

Gene: Nitro_56 Start: 39597, Stop: 39995, Start Num: 3
Candidate Starts for Nitro_56:
(Start: 3 @39597 has 21 MA's),

Gene: ObiToo_57 Start: 38458, Stop: 38865, Start Num: 3
Candidate Starts for ObiToo_57:
(Start: 3 @38458 has 21 MA's), (5, 38497), (18, 38797), (19, 38809),

Gene: Pixelle_57 Start: 40525, Stop: 40917, Start Num: 3
Candidate Starts for Pixelle_57:
(Start: 3 @40525 has 21 MA's),

Gene: Powerpuff_55 Start: 38591, Stop: 39001, Start Num: 3
Candidate Starts for Powerpuff_55:
(1, 38276), (Start: 3 @38591 has 21 MA's), (14, 38801),

Gene: Pumpkins_83 Start: 38161, Stop: 38529, Start Num: 3
Candidate Starts for Pumpkins_83:
(Start: 3 @38161 has 21 MA's), (11, 38311),

Gene: Simpson_55 Start: 37509, Stop: 37904, Start Num: 3
Candidate Starts for Simpson_55:
(1, 37194), (Start: 3 @37509 has 21 MA's),

Gene: Tallboi_55 Start: 38653, Stop: 39066, Start Num: 3
Candidate Starts for Tallboi_55:
(Start: 3 @38653 has 21 MA's), (13, 38866),

Gene: Tbone_53 Start: 38075, Stop: 38470, Start Num: 3

Candidate Starts for Tbone_53:

(Start: 3 @38075 has 21 MA's), (19, 38414),

Gene: TforTroy_54 Start: 38018, Stop: 38431, Start Num: 3

Candidate Starts for TforTroy_54:

(Start: 3 @38018 has 21 MA's), (10, 38153), (11, 38168), (12, 38198),

Gene: Tian_54 Start: 40180, Stop: 40572, Start Num: 3

Candidate Starts for Tian_54:

(Start: 3 @40180 has 21 MA's), (4, 40186),

Gene: Turab_51 Start: 36766, Stop: 37161, Start Num: 3

Candidate Starts for Turab_51:

(Start: 3 @36766 has 21 MA's),

Gene: Tutumahutu_54 Start: 37462, Stop: 37872, Start Num: 3

Candidate Starts for Tutumahutu_54:

(1, 37159), (Start: 3 @37462 has 21 MA's), (14, 37672),

Gene: Warda_54 Start: 37787, Stop: 38191, Start Num: 3

Candidate Starts for Warda_54:

(Start: 3 @37787 has 21 MA's), (6, 37832),

Gene: Yang_53 Start: 37827, Stop: 38207, Start Num: 3

Candidate Starts for Yang_53:

(Start: 3 @37827 has 21 MA's), (4, 37833), (15, 38016),

Gene: YesChef_53 Start: 37450, Stop: 37860, Start Num: 3

Candidate Starts for YesChef_53:

(1, 37135), (Start: 3 @37450 has 21 MA's), (14, 37660),