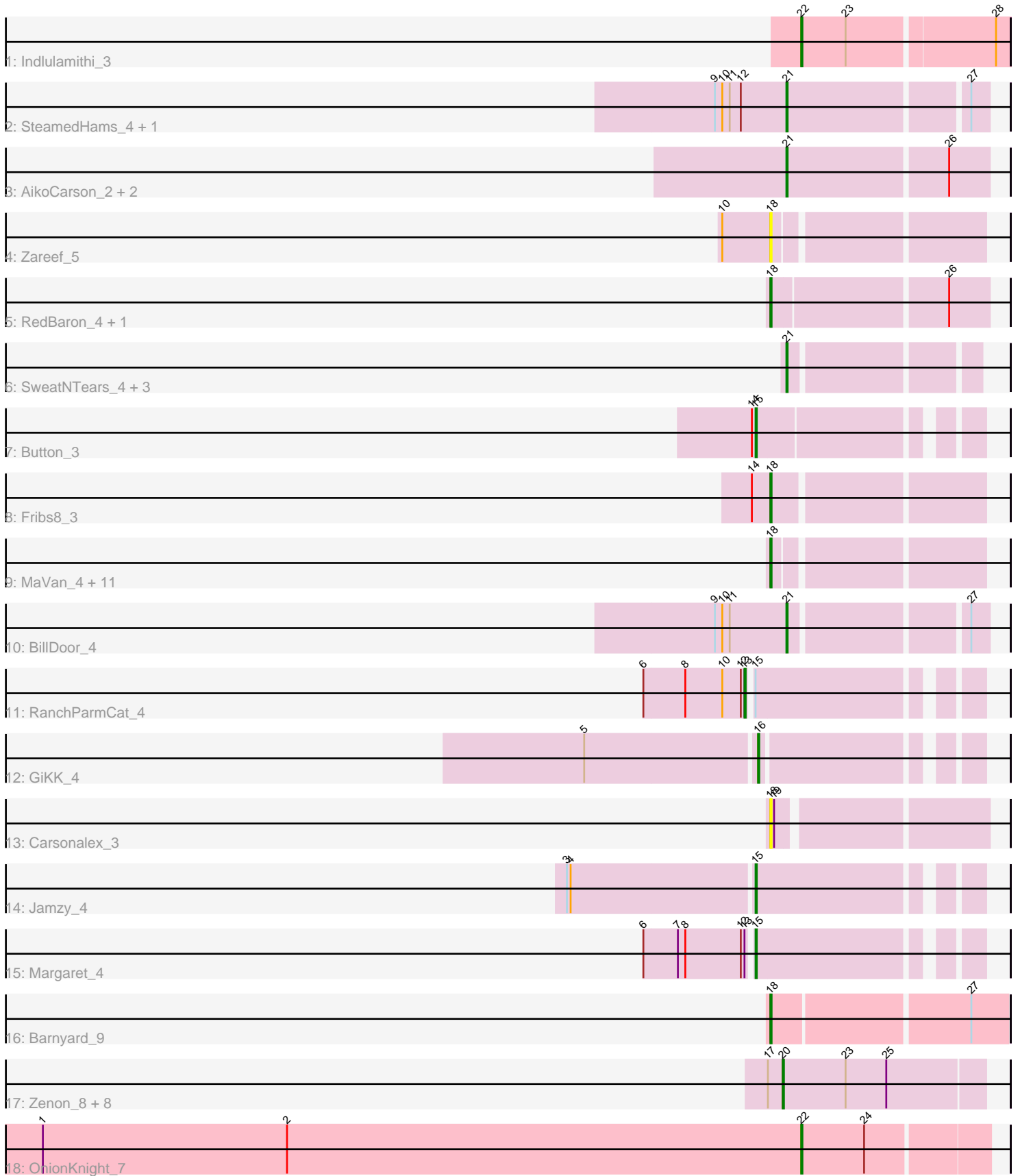


Pham 224693



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 224693 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224693 has 44 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Indlulamithi_3
- Track 2 : SteamedHams_4, Tolls_4
- Track 3 : AikoCarson_2, Amok_2, Emalyn_2
- Track 4 : Zareef_5
- Track 5 : RedBaron_4, MunkgeeRoachy_3
- Track 6 : SweatNTears_4, Horseradish_3, MScarn_4, Yummy_3
- Track 7 : Button_3
- Track 8 : Fribs8_3
- Track 9 : MaVan_4, ChickenTender_4, Typhonomachy_3, Sopespian_3, GoldHunter_3, Starburst_3, PsychoKiller_3, Azira_4, Burnsey_3, Nibbles_4, Elliott_3, Socotra_3
- Track 10 : BillDoor_4
- Track 11 : RanchParmCat_4
- Track 12 : GiKK_4
- Track 13 : Carsonalex_3
- Track 14 : Jamzy_4
- Track 15 : Margaret_4
- Track 16 : Barnyard_9
- Track 17 : Zenon_8, MontyDev_8, Send513_7, Candle_7, Riparian_7, Weiss13_7, Yelo_7, Papyrus_8, Nilo_8
- Track 18 : OnionKnight_7

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 10 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AikoCarson_2, Amok_2, BillDoor_4, Emalyn_2, Horseradish_3, MScarn_4, SteamedHams_4, SweatNTears_4, Tolls_4, Yummy_3,

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

-

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

- Azira_4, Barnyard_9, Burnsey_3, Button_3, Candle_7, Carsonalex_3, ChickenTender_4, Elliott_3, Fribs8_3, GiKK_4, GoldHunter_3, Indlulamithi_3, Jamzy_4, MaVan_4, Margaret_4, MontyDev_8, MunkgeeRoachy_3, Nibbles_4, Nilo_8, OnionKnight_7, Papyrus_8, PsychoKiller_3, RanchParmCat_4, RedBaron_4, Riparian_7, Send513_7, Socotra_3, Sopespian_3, Starburst_3, Typhonomachy_3, Weiss13_7, Yelo_7, Zareef_5, Zenon_8,

Summary by start number:

Start 13:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 50.0% of time when present
- Phage (with cluster) where this start called: RanchParmCat_4 (CT),

Start 15:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Button_3 (CT), Jamzy_4 (CT), Margaret_4 (CT),

Start 16:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiKK_4 (CT),

Start 18:

- Found in 18 of 44 (40.9%) of genes in pham
- Manual Annotations of this start: 7 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azira_4 (CT), Barnyard_9 (H2), Burnsey_3 (CT), Carsonalex_3 (CT), ChickenTender_4 (CT), Elliott_3 (CT), Fribs8_3 (CT), GoldHunter_3 (CT), MaVan_4 (CT), MunkgeeRoachy_3 (CT), Nibbles_4 (CT), PsychoKiller_3 (CT), RedBaron_4 (CT), Socotra_3 (CT), Sopespian_3 (CT), Starburst_3 (CT), Typhonomachy_3 (CT), Zareef_5 (CT),

Start 20:

- Found in 9 of 44 (20.5%) of genes in pham
- Manual Annotations of this start: 8 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_7 (R), MontyDev_8 (R), Nilo_8 (R), Papyrus_8 (R), Riparian_7 (R), Send513_7 (R), Weiss13_7 (R), Yelo_7 (R), Zenon_8 (R),

Start 21:

- Found in 10 of 44 (22.7%) of genes in pham
- Manual Annotations of this start: 10 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AikoCarson_2 (CT), Amok_2 (CT), BillDoor_4 (CT), Emalyn_2 (CT), Horseradish_3 (CT), MScarn_4 (CT),

SteamedHams_4 (CT), SweatNTears_4 (CT), Tolls_4 (CT), Yummy_3 (CT),

Start 22:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_3 (AC), OnionKnight_7 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: H2, AC, R, singleton, CT,

Info for manual annotations of cluster AC:

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

Info for manual annotations of cluster CT:

- Start number 13 was manually annotated 1 time for cluster CT.
- Start number 15 was manually annotated 3 times for cluster CT.
- Start number 16 was manually annotated 1 time for cluster CT.
- Start number 18 was manually annotated 6 times for cluster CT.
- Start number 21 was manually annotated 10 times for cluster CT.

Info for manual annotations of cluster H2:

- Start number 18 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:

- Start number 20 was manually annotated 8 times for cluster R.

Gene Information:

Gene: AikoCarson_2 Start: 534, Stop: 692, Start Num: 21

Candidate Starts for AikoCarson_2:

(Start: 21 @534 has 10 MA's), (26, 660),

Gene: Amok_2 Start: 535, Stop: 693, Start Num: 21

Candidate Starts for Amok_2:

(Start: 21 @535 has 10 MA's), (26, 661),

Gene: Azira_4 Start: 1179, Stop: 1337, Start Num: 18

Candidate Starts for Azira_4:

(Start: 18 @1179 has 7 MA's),

Gene: Barnyard_9 Start: 6285, Stop: 6467, Start Num: 18

Candidate Starts for Barnyard_9:

(Start: 18 @6285 has 7 MA's), (27, 6438),

Gene: BillDoor_4 Start: 852, Stop: 998, Start Num: 21

Candidate Starts for BillDoor_4:

(9, 795), (10, 801), (11, 807), (Start: 21 @852 has 10 MA's), (27, 984),

Gene: Burnsey_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Burnsey_3:
(Start: 18 @829 has 7 MA's),

Gene: Button_3 Start: 752, Stop: 910, Start Num: 15
Candidate Starts for Button_3:
(14, 749), (Start: 15 @752 has 3 MA's),

Gene: Candle_7 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Candle_7:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),

Gene: Carsonalex_3 Start: 894, Stop: 1055, Start Num: 18
Candidate Starts for Carsonalex_3:
(Start: 18 @894 has 7 MA's), (19, 897),

Gene: ChickenTender_4 Start: 877, Stop: 1047, Start Num: 18
Candidate Starts for ChickenTender_4:
(Start: 18 @877 has 7 MA's),

Gene: Elliott_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Elliott_3:
(Start: 18 @829 has 7 MA's),

Gene: Emalyn_2 Start: 534, Stop: 692, Start Num: 21
Candidate Starts for Emalyn_2:
(Start: 21 @534 has 10 MA's), (26, 660),

Gene: Fribs8_3 Start: 954, Stop: 1115, Start Num: 18
Candidate Starts for Fribs8_3:
(14, 939), (Start: 18 @954 has 7 MA's),

Gene: GiKK_4 Start: 1010, Stop: 1165, Start Num: 16
Candidate Starts for GiKK_4:
(5, 875), (Start: 16 @1010 has 1 MA's),

Gene: GoldHunter_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for GoldHunter_3:
(Start: 18 @829 has 7 MA's),

Gene: Horseradish_3 Start: 758, Stop: 898, Start Num: 21
Candidate Starts for Horseradish_3:
(Start: 21 @758 has 10 MA's),

Gene: Indlulamithi_3 Start: 3257, Stop: 3418, Start Num: 22
Candidate Starts for Indlulamithi_3:
(Start: 22 @3257 has 2 MA's), (23, 3293), (28, 3407),

Gene: Jamzy_4 Start: 1014, Stop: 1175, Start Num: 15
Candidate Starts for Jamzy_4:
(3, 867), (4, 870), (Start: 15 @1014 has 3 MA's),

Gene: MScarn_4 Start: 852, Stop: 992, Start Num: 21

Candidate Starts for MScarn_4:
(Start: 21 @852 has 10 MA's),

Gene: MaVan_4 Start: 1180, Stop: 1338, Start Num: 18
Candidate Starts for MaVan_4:
(Start: 18 @1180 has 7 MA's),

Gene: Margaret_4 Start: 1387, Stop: 1548, Start Num: 15
Candidate Starts for Margaret_4:
(6, 1303), (7, 1330), (8, 1336), (12, 1381), (Start: 13 @1384 has 1 MA's), (Start: 15 @1387 has 3 MA's),

Gene: MontyDev_8 Start: 5192, Stop: 5353, Start Num: 20
Candidate Starts for MontyDev_8:
(17, 5180), (Start: 20 @5192 has 8 MA's), (23, 5243), (25, 5276),

Gene: MunkgeeRoachy_3 Start: 877, Stop: 1047, Start Num: 18
Candidate Starts for MunkgeeRoachy_3:
(Start: 18 @877 has 7 MA's), (26, 1015),

Gene: Nibbles_4 Start: 1180, Stop: 1338, Start Num: 18
Candidate Starts for Nibbles_4:
(Start: 18 @1180 has 7 MA's),

Gene: Nilo_8 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Nilo_8:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),

Gene: OnionKnight_7 Start: 5413, Stop: 5559, Start Num: 22
Candidate Starts for OnionKnight_7:
(1, 4798), (2, 4996), (Start: 22 @5413 has 2 MA's), (24, 5464),

Gene: Papyrus_8 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Papyrus_8:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),

Gene: PsychoKiller_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for PsychoKiller_3:
(Start: 18 @829 has 7 MA's),

Gene: RanchParmCat_4 Start: 1384, Stop: 1548, Start Num: 13
Candidate Starts for RanchParmCat_4:
(6, 1303), (8, 1336), (10, 1366), (12, 1381), (Start: 13 @1384 has 1 MA's), (Start: 15 @1387 has 3 MA's),

Gene: RedBaron_4 Start: 877, Stop: 1044, Start Num: 18
Candidate Starts for RedBaron_4:
(Start: 18 @877 has 7 MA's), (26, 1012),

Gene: Riparian_7 Start: 4890, Stop: 5051, Start Num: 20
Candidate Starts for Riparian_7:
(17, 4878), (Start: 20 @4890 has 8 MA's), (23, 4941), (25, 4974),

Gene: Send513_7 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Send513_7:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),

Gene: Socotra_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Socotra_3:
(Start: 18 @829 has 7 MA's),

Gene: Sopespian_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Sopespian_3:
(Start: 18 @829 has 7 MA's),

Gene: Starburst_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Starburst_3:
(Start: 18 @829 has 7 MA's),

Gene: SteamedHams_4 Start: 852, Stop: 1004, Start Num: 21
Candidate Starts for SteamedHams_4:
(9, 795), (10, 801), (11, 807), (12, 816), (Start: 21 @852 has 10 MA's), (27, 990),

Gene: SweatNTears_4 Start: 1378, Stop: 1518, Start Num: 21
Candidate Starts for SweatNTears_4:
(Start: 21 @1378 has 10 MA's),

Gene: Tolls_4 Start: 852, Stop: 1004, Start Num: 21
Candidate Starts for Tolls_4:
(9, 795), (10, 801), (11, 807), (12, 816), (Start: 21 @852 has 10 MA's), (27, 990),

Gene: Typhonomachy_3 Start: 829, Stop: 999, Start Num: 18
Candidate Starts for Typhonomachy_3:
(Start: 18 @829 has 7 MA's),

Gene: Weiss13_7 Start: 4881, Stop: 5042, Start Num: 20
Candidate Starts for Weiss13_7:
(17, 4869), (Start: 20 @4881 has 8 MA's), (23, 4932), (25, 4965),

Gene: Yelo_7 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Yelo_7:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),

Gene: Yummy_3 Start: 758, Stop: 898, Start Num: 21
Candidate Starts for Yummy_3:
(Start: 21 @758 has 10 MA's),

Gene: Zareef_5 Start: 1180, Stop: 1338, Start Num: 18
Candidate Starts for Zareef_5:
(10, 1141), (Start: 18 @1180 has 7 MA's),

Gene: Zenon_8 Start: 5193, Stop: 5354, Start Num: 20
Candidate Starts for Zenon_8:
(17, 5181), (Start: 20 @5193 has 8 MA's), (23, 5244), (25, 5277),