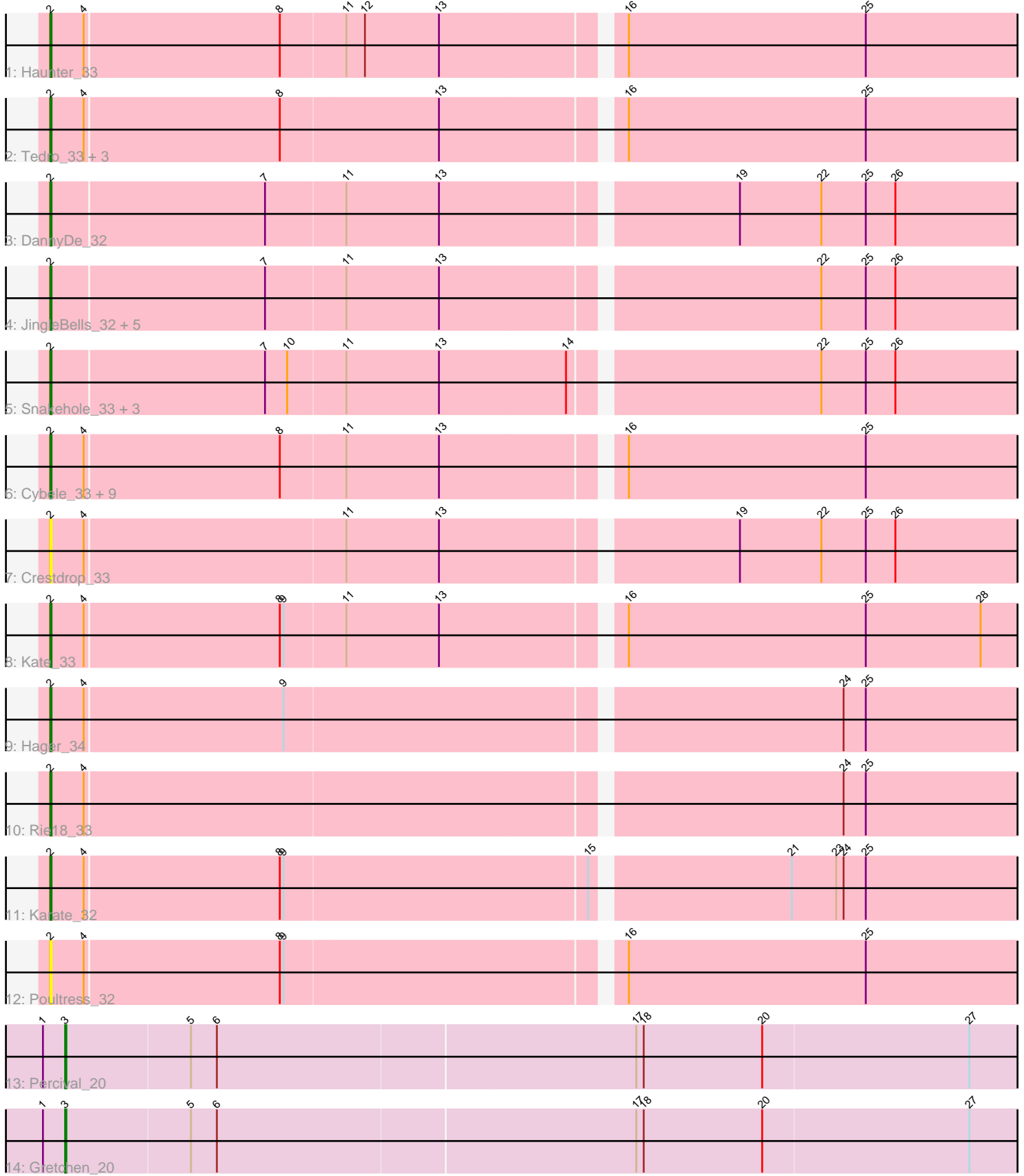


Pham 171642



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 171642 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171642 has 34 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Haunter\_33
- Track 2 : Tedro\_33, NarutoRun\_33, Gilda\_33, Anakin\_33
- Track 3 : DannyDe\_32
- Track 4 : JingleBells\_32, Erudite\_32, JDawG\_32, MortySmith\_31, Aesir\_32, Dauntless\_33
- Track 5 : Snakehole\_33, Hiddenleaf\_32, FreddieHg\_32, Chivey\_32
- Track 6 : Cybele\_33, AnnaSerena\_33, CoolCookie\_38, Krampus\_33, Neptune\_33, PhunaPhoke\_33, OverHedge\_33, Potty\_33, Rachella\_33, Pharpay\_33
- Track 7 : Crestdrop\_33
- Track 8 : Kate\_33
- Track 9 : Hager\_34
- Track 10 : Rie18\_33
- Track 11 : Karate\_32
- Track 12 : Poultruss\_32
- Track 13 : Percival\_20
- Track 14 : Gretchen\_20

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

The start number called the most often in the published annotations is 2, it was called in 26 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir\_32, Anakin\_33, AnnaSerena\_33, Chivey\_32, CoolCookie\_38, Crestdrop\_33, Cybele\_33, DannyDe\_32, Dauntless\_33, Erudite\_32, FreddieHg\_32, Gilda\_33, Hager\_34, Haunter\_33, Hiddenleaf\_32, JDawG\_32, JingleBells\_32, Karate\_32, Kate\_33, Krampus\_33, MortySmith\_31, NarutoRun\_33, Neptune\_33, OverHedge\_33, Pharpay\_33, PhunaPhoke\_33, Potty\_33, Poultruss\_32, Rachella\_33, Rie18\_33, Snakehole\_33, Tedro\_33,

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

- 

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

- Gretchen\_20, Percival\_20,

### Summary by start number:

#### Start 2:

- Found in 32 of 34 ( 94.1% ) of genes in pham
- Manual Annotations of this start: 26 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir\_32 (EF), Anakin\_33 (EF), AnnaSerena\_33 (EF), Chivey\_32 (EF), CoolCookie\_38 (EF), Crestdrop\_33 (EF), Cybele\_33 (EF), DannyDe\_32 (EF), Dauntless\_33 (EF), Erudite\_32 (EF), FreddieHg\_32 (EF), Gilda\_33 (EF), Hager\_34 (EF), Haunter\_33 (EF), Hiddenleaf\_32 (EF), JDawG\_32 (EF), JingleBells\_32 (EF), Karate\_32 (EF), Kate\_33 (EF), Krampus\_33 (EF), MortySmith\_31 (EF), NarutoRun\_33 (EF), Neptune\_33 (EF), OverHedge\_33 (EF), Pharpay\_33 (EF), PhunaPhoke\_33 (EF), Potty\_33 (EF), Poultruss\_32 (EF), Rachella\_33 (EF), Rie18\_33 (EF), Snakehole\_33 (EF), Tedro\_33 (EF),

#### Start 3:

- Found in 2 of 34 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gretchen\_20 (EH), Percival\_20 (EH),

### Summary by clusters:

There are 2 clusters represented in this pham: EF, EH,

Info for manual annotations of cluster EF:

- Start number 2 was manually annotated 26 times for cluster EF.

Info for manual annotations of cluster EH:

- Start number 3 was manually annotated 2 times for cluster EH.

### Gene Information:

Gene: Aesir\_32 Start: 21196, Stop: 22008, Start Num: 2

Candidate Starts for Aesir\_32:

(Start: 2 @21196 has 26 MA's), (7, 21367), (11, 21430), (13, 21505), (22, 21796), (25, 21832), (26, 21856),

Gene: Anakin\_33 Start: 21454, Stop: 22266, Start Num: 2

Candidate Starts for Anakin\_33:

(Start: 2 @21454 has 26 MA's), (4, 21481), (8, 21637), (13, 21763), (16, 21898), (25, 22090),

Gene: AnnaSerena\_33 Start: 21465, Stop: 22277, Start Num: 2

Candidate Starts for AnnaSerena\_33:

(Start: 2 @21465 has 26 MA's), (4, 21492), (8, 21648), (11, 21699), (13, 21774), (16, 21909), (25, 22101),

Gene: Chivey\_32 Start: 20607, Stop: 21419, Start Num: 2

Candidate Starts for Chivey\_32:

(Start: 2 @20607 has 26 MA's), (7, 20778), (10, 20796), (11, 20841), (13, 20916), (14, 21018), (22, 21207), (25, 21243), (26, 21267),

Gene: CoolCookie\_38 Start: 21461, Stop: 22273, Start Num: 2

Candidate Starts for CoolCookie\_38:

(Start: 2 @21461 has 26 MA's), (4, 21488), (8, 21644), (11, 21695), (13, 21770), (16, 21905), (25, 22097),

Gene: Crestdrop\_33 Start: 20521, Stop: 21333, Start Num: 2

Candidate Starts for Crestdrop\_33:

(Start: 2 @20521 has 26 MA's), (4, 20548), (11, 20755), (13, 20830), (19, 21055), (22, 21121), (25, 21157), (26, 21181),

Gene: Cybele\_33 Start: 21431, Stop: 22243, Start Num: 2

Candidate Starts for Cybele\_33:

(Start: 2 @21431 has 26 MA's), (4, 21458), (8, 21614), (11, 21665), (13, 21740), (16, 21875), (25, 22067),

Gene: DannyDe\_32 Start: 20604, Stop: 21416, Start Num: 2

Candidate Starts for DannyDe\_32:

(Start: 2 @20604 has 26 MA's), (7, 20775), (11, 20838), (13, 20913), (19, 21138), (22, 21204), (25, 21240), (26, 21264),

Gene: Dauntless\_33 Start: 21164, Stop: 21976, Start Num: 2

Candidate Starts for Dauntless\_33:

(Start: 2 @21164 has 26 MA's), (7, 21335), (11, 21398), (13, 21473), (22, 21764), (25, 21800), (26, 21824),

Gene: Erudite\_32 Start: 21164, Stop: 21976, Start Num: 2

Candidate Starts for Erudite\_32:

(Start: 2 @21164 has 26 MA's), (7, 21335), (11, 21398), (13, 21473), (22, 21764), (25, 21800), (26, 21824),

Gene: FreddieHg\_32 Start: 20623, Stop: 21435, Start Num: 2

Candidate Starts for FreddieHg\_32:

(Start: 2 @20623 has 26 MA's), (7, 20794), (10, 20812), (11, 20857), (13, 20932), (14, 21034), (22, 21223), (25, 21259), (26, 21283),

Gene: Gilda\_33 Start: 21455, Stop: 22267, Start Num: 2

Candidate Starts for Gilda\_33:

(Start: 2 @21455 has 26 MA's), (4, 21482), (8, 21638), (13, 21764), (16, 21899), (25, 22091),

Gene: Gretchen\_20 Start: 18050, Stop: 18859, Start Num: 3

Candidate Starts for Gretchen\_20:

(1, 18032), (Start: 3 @18050 has 2 MA's), (5, 18149), (6, 18170), (17, 18503), (18, 18509), (20, 18605), (27, 18770),

Gene: Hager\_34 Start: 21017, Stop: 21829, Start Num: 2

Candidate Starts for Hager\_34:

(Start: 2 @21017 has 26 MA's), (4, 21044), (9, 21203), (24, 21635), (25, 21653),

Gene: Haunter\_33 Start: 20868, Stop: 21680, Start Num: 2

Candidate Starts for Haunter\_33:

(Start: 2 @20868 has 26 MA's), (4, 20895), (8, 21051), (11, 21102), (12, 21117), (13, 21177), (16, 21312), (25, 21504),

Gene: Hiddenleaf\_32 Start: 20607, Stop: 21419, Start Num: 2

Candidate Starts for Hiddenleaf\_32:

(Start: 2 @20607 has 26 MA's), (7, 20778), (10, 20796), (11, 20841), (13, 20916), (14, 21018), (22, 21207), (25, 21243), (26, 21267),

Gene: JDawG\_32 Start: 21191, Stop: 22003, Start Num: 2

Candidate Starts for JDawG\_32:

(Start: 2 @21191 has 26 MA's), (7, 21362), (11, 21425), (13, 21500), (22, 21791), (25, 21827), (26, 21851),

Gene: JingleBells\_32 Start: 20728, Stop: 21540, Start Num: 2

Candidate Starts for JingleBells\_32:

(Start: 2 @20728 has 26 MA's), (7, 20899), (11, 20962), (13, 21037), (22, 21328), (25, 21364), (26, 21388),

Gene: Karate\_32 Start: 21484, Stop: 22296, Start Num: 2

Candidate Starts for Karate\_32:

(Start: 2 @21484 has 26 MA's), (4, 21511), (8, 21667), (9, 21670), (15, 21910), (21, 22060), (23, 22096), (24, 22102), (25, 22120),

Gene: Kate\_33 Start: 21463, Stop: 22275, Start Num: 2

Candidate Starts for Kate\_33:

(Start: 2 @21463 has 26 MA's), (4, 21490), (8, 21646), (9, 21649), (11, 21697), (13, 21772), (16, 21907), (25, 22099), (28, 22192),

Gene: Krampus\_33 Start: 21463, Stop: 22275, Start Num: 2

Candidate Starts for Krampus\_33:

(Start: 2 @21463 has 26 MA's), (4, 21490), (8, 21646), (11, 21697), (13, 21772), (16, 21907), (25, 22099),

Gene: MortySmith\_31 Start: 20579, Stop: 21391, Start Num: 2

Candidate Starts for MortySmith\_31:

(Start: 2 @20579 has 26 MA's), (7, 20750), (11, 20813), (13, 20888), (22, 21179), (25, 21215), (26, 21239),

Gene: NarutoRun\_33 Start: 21454, Stop: 22266, Start Num: 2

Candidate Starts for NarutoRun\_33:

(Start: 2 @21454 has 26 MA's), (4, 21481), (8, 21637), (13, 21763), (16, 21898), (25, 22090),

Gene: Neptune\_33 Start: 21431, Stop: 22243, Start Num: 2

Candidate Starts for Neptune\_33:

(Start: 2 @21431 has 26 MA's), (4, 21458), (8, 21614), (11, 21665), (13, 21740), (16, 21875), (25, 22067),

Gene: OverHedge\_33 Start: 21421, Stop: 22233, Start Num: 2

Candidate Starts for OverHedge\_33:

(Start: 2 @21421 has 26 MA's), (4, 21448), (8, 21604), (11, 21655), (13, 21730), (16, 21865), (25, 22057),

Gene: Percival\_20 Start: 17884, Stop: 18693, Start Num: 3

Candidate Starts for Percival\_20:

(1, 17866), (Start: 3 @17884 has 2 MA's), (5, 17983), (6, 18004), (17, 18337), (18, 18343), (20, 18439), (27, 18604),

Gene: Pharpay\_33 Start: 21476, Stop: 22288, Start Num: 2

Candidate Starts for Pharpay\_33:

(Start: 2 @21476 has 26 MA's), (4, 21503), (8, 21659), (11, 21710), (13, 21785), (16, 21920), (25, 22112),

Gene: PhunaPhoke\_33 Start: 21449, Stop: 22261, Start Num: 2

Candidate Starts for PhunaPhoke\_33:

(Start: 2 @21449 has 26 MA's), (4, 21476), (8, 21632), (11, 21683), (13, 21758), (16, 21893), (25, 22085),

Gene: Potty\_33 Start: 21454, Stop: 22266, Start Num: 2

Candidate Starts for Potty\_33:

(Start: 2 @21454 has 26 MA's), (4, 21481), (8, 21637), (11, 21688), (13, 21763), (16, 21898), (25, 22090),

Gene: Poultruss\_32 Start: 21823, Stop: 22635, Start Num: 2

Candidate Starts for Poultruss\_32:

(Start: 2 @21823 has 26 MA's), (4, 21850), (8, 22006), (9, 22009), (16, 22267), (25, 22459),

Gene: Rachella\_33 Start: 21457, Stop: 22269, Start Num: 2

Candidate Starts for Rachella\_33:

(Start: 2 @21457 has 26 MA's), (4, 21484), (8, 21640), (11, 21691), (13, 21766), (16, 21901), (25, 22093),

Gene: Rie18\_33 Start: 20970, Stop: 21782, Start Num: 2

Candidate Starts for Rie18\_33:

(Start: 2 @20970 has 26 MA's), (4, 20997), (24, 21588), (25, 21606),

Gene: Snakehole\_33 Start: 20704, Stop: 21516, Start Num: 2

Candidate Starts for Snakehole\_33:

(Start: 2 @20704 has 26 MA's), (7, 20875), (10, 20893), (11, 20938), (13, 21013), (14, 21115), (22, 21304), (25, 21340), (26, 21364),

Gene: Tedro\_33 Start: 20927, Stop: 21739, Start Num: 2

Candidate Starts for Tedro\_33:

(Start: 2 @20927 has 26 MA's), (4, 20954), (8, 21110), (13, 21236), (16, 21371), (25, 21563),