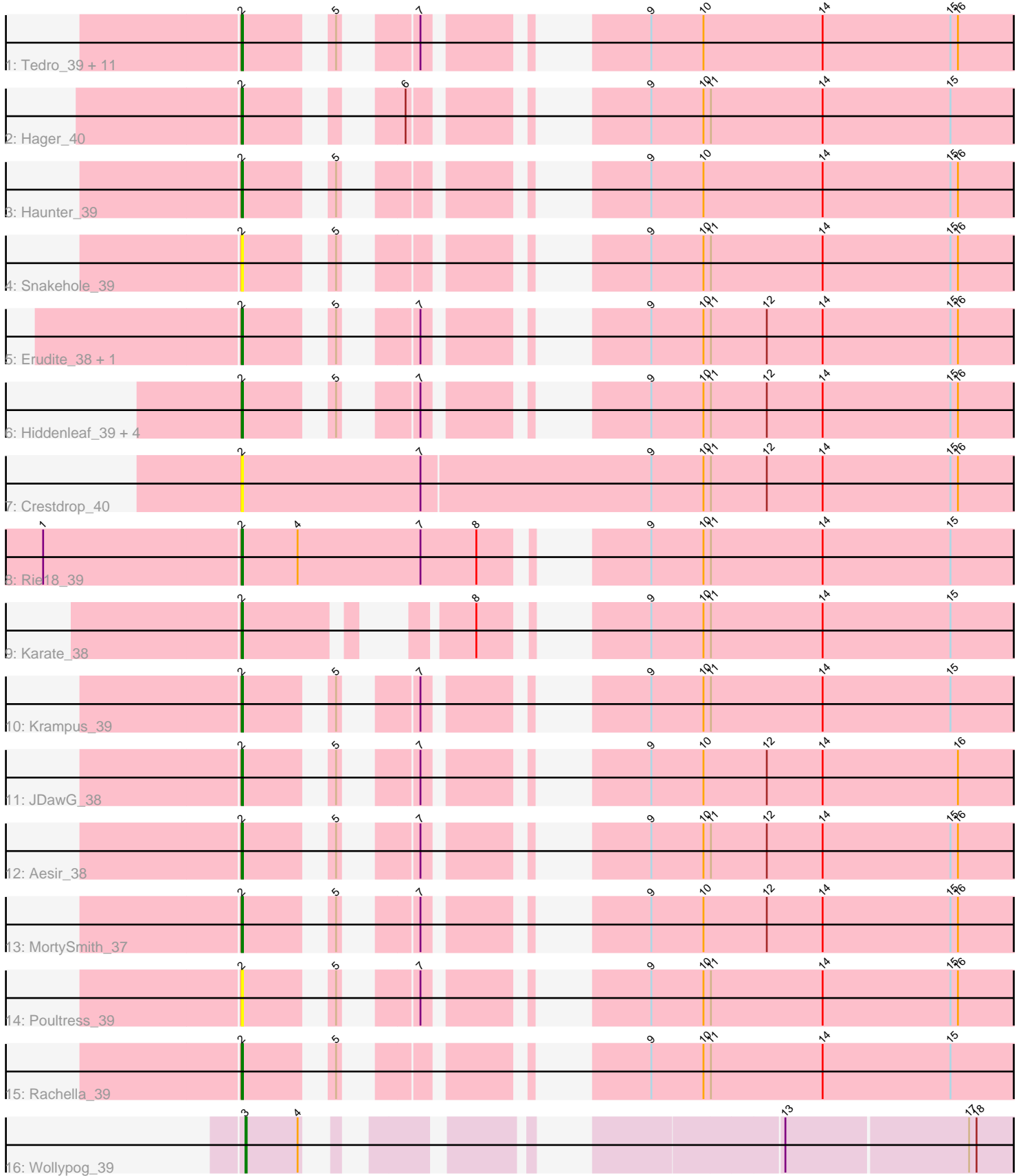


Pham 158066



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 158066 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158066 has 32 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Tedro_39, AnnaSerena_39, PhunaPhoke_39, Neptune_39, Cybele_39, CoolCookie_44, NarutoRun_39, Pharpay_39, Anakin_39, Gilda_39, Potty_39, OverHedge_40
- Track 2 : Hager_40
- Track 3 : Haunter_39
- Track 4 : Snakehole_39
- Track 5 : Erudite_38, Dauntless_39
- Track 6 : Hiddenleaf_39, JingleBells_39, DannyDe_39, FreddieHg_39, Chivey_39
- Track 7 : Crestdrop_40
- Track 8 : Rie18_39
- Track 9 : Karate_38
- Track 10 : Krampus_39
- Track 11 : JDawG_38
- Track 12 : Aesir_38
- Track 13 : MortySmith_37
- Track 14 : Poultruss_39
- Track 15 : Rachella_39
- Track 16 : Wollypog_39

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 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_38, Anakin_39, AnnaSerena_39, Chivey_39, CoolCookie_44, Crestdrop_40, Cybele_39, DannyDe_39, Dauntless_39, Erudite_38, FreddieHg_39, Gilda_39, Hager_40, Haunter_39, Hiddenleaf_39, JDawG_38, JingleBells_39, Karate_38, Krampus_39, MortySmith_37, NarutoRun_39, Neptune_39, OverHedge_40, Pharpay_39, PhunaPhoke_39, Potty_39, Poultruss_39, Rachella_39, Rie18_39, Snakehole_39, Tedro_39,

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

-

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

- Wollypog_39,

Summary by start number:

Start 2:

- Found in 31 of 32 (96.9%) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_38 (EF), Anakin_39 (EF), AnnaSerena_39 (EF), Chivey_39 (EF), CoolCookie_44 (EF), Crestdrop_40 (EF), Cybele_39 (EF), DannyDe_39 (EF), Dauntless_39 (EF), Erudite_38 (EF), FreddieHg_39 (EF), Gilda_39 (EF), Hager_40 (EF), Haunter_39 (EF), Hiddenleaf_39 (EF), JDawG_38 (EF), JingleBells_39 (EF), Karate_38 (EF), Krampus_39 (EF), MortySmith_37 (EF), NarutoRun_39 (EF), Neptune_39 (EF), OverHedge_40 (EF), Pharpay_39 (EF), PhunaPhoke_39 (EF), Potty_39 (EF), Poultress_39 (EF), Rachella_39 (EF), Rie18_39 (EF), Snakehole_39 (EF), Tedro_39 (EF),

Start 3:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_39 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster EF:

- Start number 2 was manually annotated 23 times for cluster EF.

Gene Information:

Gene: Aesir_38 Start: 25004, Stop: 25594, Start Num: 2

Candidate Starts for Aesir_38:

(Start: 2 @25004 has 23 MA's), (5, 25058), (7, 25094), (9, 25208), (10, 25250), (11, 25256), (12, 25301), (14, 25346), (15, 25448), (16, 25454),

Gene: Anakin_39 Start: 25324, Stop: 25914, Start Num: 2

Candidate Starts for Anakin_39:

(Start: 2 @25324 has 23 MA's), (5, 25378), (7, 25414), (9, 25528), (10, 25570), (14, 25666), (15, 25768), (16, 25774),

Gene: AnnaSerena_39 Start: 25359, Stop: 25949, Start Num: 2

Candidate Starts for AnnaSerena_39:

(Start: 2 @25359 has 23 MA's), (5, 25413), (7, 25449), (9, 25563), (10, 25605), (14, 25701), (15, 25803), (16, 25809),

Gene: Chivey_39 Start: 24582, Stop: 25172, Start Num: 2

Candidate Starts for Chivey_39:

(Start: 2 @24582 has 23 MA's), (5, 24636), (7, 24672), (9, 24786), (10, 24828), (11, 24834), (12, 24879), (14, 24924), (15, 25026), (16, 25032),

Gene: CoolCookie_44 Start: 25354, Stop: 25944, Start Num: 2

Candidate Starts for CoolCookie_44:

(Start: 2 @25354 has 23 MA's), (5, 25408), (7, 25444), (9, 25558), (10, 25600), (14, 25696), (15, 25798), (16, 25804),

Gene: Crestdrop_40 Start: 24493, Stop: 25206, Start Num: 2

Candidate Starts for Crestdrop_40:

(Start: 2 @24493 has 23 MA's), (7, 24637), (9, 24820), (10, 24862), (11, 24868), (12, 24913), (14, 24958), (15, 25060), (16, 25066),

Gene: Cybele_39 Start: 25324, Stop: 25914, Start Num: 2

Candidate Starts for Cybele_39:

(Start: 2 @25324 has 23 MA's), (5, 25378), (7, 25414), (9, 25528), (10, 25570), (14, 25666), (15, 25768), (16, 25774),

Gene: DannyDe_39 Start: 24588, Stop: 25178, Start Num: 2

Candidate Starts for DannyDe_39:

(Start: 2 @24588 has 23 MA's), (5, 24642), (7, 24678), (9, 24792), (10, 24834), (11, 24840), (12, 24885), (14, 24930), (15, 25032), (16, 25038),

Gene: Dauntless_39 Start: 24910, Stop: 25500, Start Num: 2

Candidate Starts for Dauntless_39:

(Start: 2 @24910 has 23 MA's), (5, 24964), (7, 25000), (9, 25114), (10, 25156), (11, 25162), (12, 25207), (14, 25252), (15, 25354), (16, 25360),

Gene: Erudite_38 Start: 24910, Stop: 25500, Start Num: 2

Candidate Starts for Erudite_38:

(Start: 2 @24910 has 23 MA's), (5, 24964), (7, 25000), (9, 25114), (10, 25156), (11, 25162), (12, 25207), (14, 25252), (15, 25354), (16, 25360),

Gene: FreddieHg_39 Start: 24598, Stop: 25188, Start Num: 2

Candidate Starts for FreddieHg_39:

(Start: 2 @24598 has 23 MA's), (5, 24652), (7, 24688), (9, 24802), (10, 24844), (11, 24850), (12, 24895), (14, 24940), (15, 25042), (16, 25048),

Gene: Gilda_39 Start: 25348, Stop: 25938, Start Num: 2

Candidate Starts for Gilda_39:

(Start: 2 @25348 has 23 MA's), (5, 25402), (7, 25438), (9, 25552), (10, 25594), (14, 25690), (15, 25792), (16, 25798),

Gene: Hager_40 Start: 24835, Stop: 25425, Start Num: 2

Candidate Starts for Hager_40:

(Start: 2 @24835 has 23 MA's), (6, 24916), (9, 25039), (10, 25081), (11, 25087), (14, 25177), (15, 25279),

Gene: Haunter_39 Start: 24740, Stop: 25330, Start Num: 2

Candidate Starts for Haunter_39:

(Start: 2 @24740 has 23 MA's), (5, 24794), (9, 24944), (10, 24986), (14, 25082), (15, 25184), (16, 25190),

Gene: Hiddenleaf_39 Start: 24582, Stop: 25172, Start Num: 2

Candidate Starts for Hiddenleaf_39:

(Start: 2 @24582 has 23 MA's), (5, 24636), (7, 24672), (9, 24786), (10, 24828), (11, 24834), (12, 24879), (14, 24924), (15, 25026), (16, 25032),

Gene: JDawG_38 Start: 24999, Stop: 25589, Start Num: 2

Candidate Starts for JDawG_38:

(Start: 2 @24999 has 23 MA's), (5, 25053), (7, 25089), (9, 25203), (10, 25245), (12, 25296), (14, 25341), (16, 25449),

Gene: JingleBells_39 Start: 24703, Stop: 25293, Start Num: 2

Candidate Starts for JingleBells_39:

(Start: 2 @24703 has 23 MA's), (5, 24757), (7, 24793), (9, 24907), (10, 24949), (11, 24955), (12, 25000), (14, 25045), (15, 25147), (16, 25153),

Gene: Karate_38 Start: 25350, Stop: 25943, Start Num: 2

Candidate Starts for Karate_38:

(Start: 2 @25350 has 23 MA's), (8, 25476), (9, 25557), (10, 25599), (11, 25605), (14, 25695), (15, 25797),

Gene: Krampus_39 Start: 25356, Stop: 25946, Start Num: 2

Candidate Starts for Krampus_39:

(Start: 2 @25356 has 23 MA's), (5, 25410), (7, 25446), (9, 25560), (10, 25602), (11, 25608), (14, 25698), (15, 25800),

Gene: MortySmith_37 Start: 24387, Stop: 24977, Start Num: 2

Candidate Starts for MortySmith_37:

(Start: 2 @24387 has 23 MA's), (5, 24441), (7, 24477), (9, 24591), (10, 24633), (12, 24684), (14, 24729), (15, 24831), (16, 24837),

Gene: NarutoRun_39 Start: 25324, Stop: 25914, Start Num: 2

Candidate Starts for NarutoRun_39:

(Start: 2 @25324 has 23 MA's), (5, 25378), (7, 25414), (9, 25528), (10, 25570), (14, 25666), (15, 25768), (16, 25774),

Gene: Neptune_39 Start: 25324, Stop: 25914, Start Num: 2

Candidate Starts for Neptune_39:

(Start: 2 @25324 has 23 MA's), (5, 25378), (7, 25414), (9, 25528), (10, 25570), (14, 25666), (15, 25768), (16, 25774),

Gene: OverHedge_40 Start: 25314, Stop: 25904, Start Num: 2

Candidate Starts for OverHedge_40:

(Start: 2 @25314 has 23 MA's), (5, 25368), (7, 25404), (9, 25518), (10, 25560), (14, 25656), (15, 25758), (16, 25764),

Gene: Pharpay_39 Start: 25369, Stop: 25959, Start Num: 2

Candidate Starts for Pharpay_39:

(Start: 2 @25369 has 23 MA's), (5, 25423), (7, 25459), (9, 25573), (10, 25615), (14, 25711), (15, 25813), (16, 25819),

Gene: PhunaPhoke_39 Start: 25342, Stop: 25932, Start Num: 2

Candidate Starts for PhunaPhoke_39:

(Start: 2 @25342 has 23 MA's), (5, 25396), (7, 25432), (9, 25546), (10, 25588), (14, 25684), (15, 25786), (16, 25792),

Gene: Potty_39 Start: 25347, Stop: 25937, Start Num: 2

Candidate Starts for Potty_39:

(Start: 2 @25347 has 23 MA's), (5, 25401), (7, 25437), (9, 25551), (10, 25593), (14, 25689), (15, 25791), (16, 25797),

Gene: Poultress_39 Start: 25693, Stop: 26283, Start Num: 2

Candidate Starts for Poultress_39:

(Start: 2 @25693 has 23 MA's), (5, 25747), (7, 25783), (9, 25897), (10, 25939), (11, 25945), (14, 26035), (15, 26137), (16, 26143),

Gene: Rachella_39 Start: 25350, Stop: 25940, Start Num: 2

Candidate Starts for Rachella_39:

(Start: 2 @25350 has 23 MA's), (5, 25404), (9, 25554), (10, 25596), (11, 25602), (14, 25692), (15, 25794),

Gene: Rie18_39 Start: 24840, Stop: 25496, Start Num: 2

Candidate Starts for Rie18_39:

(1, 24684), (Start: 2 @24840 has 23 MA's), (4, 24885), (7, 24984), (8, 25029), (9, 25110), (10, 25152), (11, 25158), (14, 25248), (15, 25350),

Gene: Snakehole_39 Start: 24527, Stop: 25117, Start Num: 2

Candidate Starts for Snakehole_39:

(Start: 2 @24527 has 23 MA's), (5, 24581), (9, 24731), (10, 24773), (11, 24779), (14, 24869), (15, 24971), (16, 24977),

Gene: Tedro_39 Start: 24820, Stop: 25410, Start Num: 2

Candidate Starts for Tedro_39:

(Start: 2 @24820 has 23 MA's), (5, 24874), (7, 24910), (9, 25024), (10, 25066), (14, 25162), (15, 25264), (16, 25270),

Gene: Wollypog_39 Start: 29480, Stop: 30064, Start Num: 3

Candidate Starts for Wollypog_39:

(Start: 3 @29480 has 1 MA's), (4, 29522), (13, 29789), (17, 29933), (18, 29939),