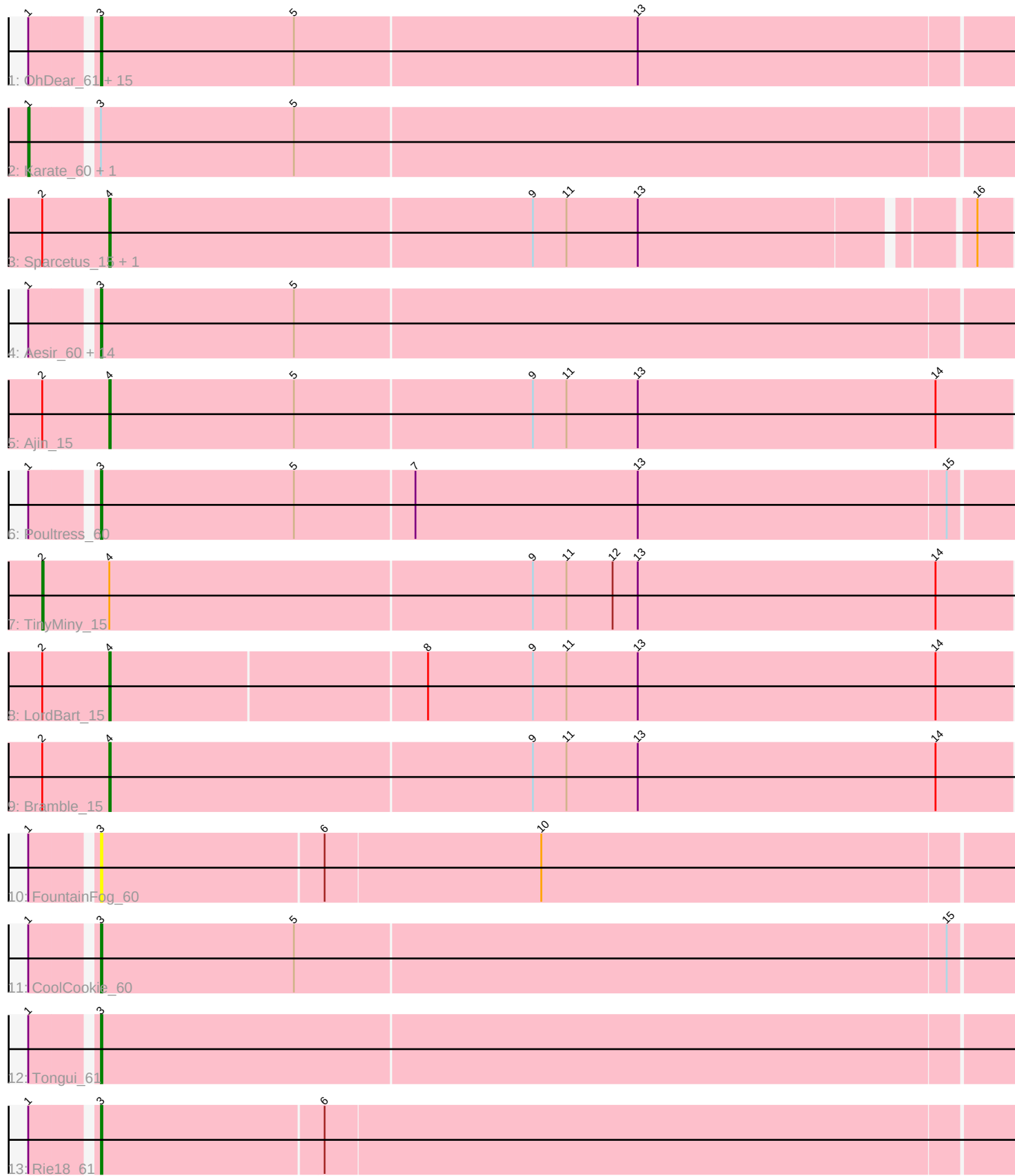


Pham 280588



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 280588 Report

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

Pham number 280588 has 44 members, 4 are drafts.

Phages represented in each track:

- Track 1 : OhDear_61, Pharpay_60, Potty_60, Anakin_61, Rachella_61, Haunter_61, NarutoRun_61, Krampus_61, Cybele_61, PhunaPhoke_61, Kate_61, AnnaSerena_61, OverHedge_60, Gilda_61, Artiphact_60, Neptune_61
- Track 2 : Karate_60, DannyDe_62
- Track 3 : Sparcetus_15, RikSengupta_15
- Track 4 : Aesir_60, Annapurna_62, JDawG_60, SilentWarrior_62, Chivey_62, Crestdrop_61, Dauntless_60, JingleBells_61, FreddieHg_62, Erudite_60, Tedro_61, Snakehole_62, Hiddenleaf_62, MortySmith_59, Hager_62
- Track 5 : Ajin_15
- Track 6 : Poultress_60
- Track 7 : TinyMiny_15
- Track 8 : LordBart_15
- Track 9 : Bramble_15
- Track 10 : FountainFog_60
- Track 11 : CoolCookie_60
- Track 12 : Tongui_61
- Track 13 : Rie18_61

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 32 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_60, Anakin_61, AnnaSerena_61, Annapurna_62, Artiphact_60, Chivey_62, CoolCookie_60, Crestdrop_61, Cybele_61, Dauntless_60, Erudite_60, FountainFog_60, FreddieHg_62, Gilda_61, Hager_62, Haunter_61, Hiddenleaf_62, JDawG_60, JingleBells_61, Kate_61, Krampus_61, MortySmith_59, NarutoRun_61, Neptune_61, OhDear_61, OverHedge_60, Pharpay_60, PhunaPhoke_61, Potty_60, Poultress_60, Rachella_61, Rie18_61, SilentWarrior_62, Snakehole_62, Tedro_61, Tongui_61,

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

- DannyDe_62, Karate_60,

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

- Ajin_15, Bramble_15, LordBart_15, RikSengupta_15, Sparcetus_15, TinyMiny_15,

Summary by start number:

Start 1:

- Found in 38 of 44 (86.4%) of genes in pham
- Manual Annotations of this start: 2 of 40
- Called 5.3% of time when present
- Phage (with cluster) where this start called: DannyDe_62 (EF), Karate_60 (EF),

Start 2:

- Found in 6 of 44 (13.6%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 16.7% of time when present
- Phage (with cluster) where this start called: TinyMiny_15 (EF),

Start 3:

- Found in 38 of 44 (86.4%) of genes in pham
- Manual Annotations of this start: 32 of 40
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Aesir_60 (EF), Anakin_61 (EF), AnnaSerena_61 (EF), Annapurna_62 (EF), Artiphact_60 (EF), Chivey_62 (EF), CoolCookie_60 (EF), Crestdrop_61 (EF), Cybele_61 (EF), Dauntless_60 (EF), Erudite_60 (EF), FountainFog_60 (EF), FreddieHg_62 (EF), Gilda_61 (EF), Hager_62 (EF), Haunter_61 (EF), Hiddenleaf_62 (EF), JDawG_60 (EF), JingleBells_61 (EF), Kate_61 (EF), Krampus_61 (EF), MortySmith_59 (EF), NarutoRun_61 (EF), Neptune_61 (EF), OhDear_61 (EF), OverHedge_60 (EF), Pharpay_60 (EF), PhunaPhoke_61 (EF), Potty_60 (EF), Poultruss_60 (EF), Rachella_61 (EF), Rie18_61 (EF), SilentWarrior_62 (EF), Snakehole_62 (EF), Tedro_61 (EF), Tongui_61 (EF),

Start 4:

- Found in 6 of 44 (13.6%) of genes in pham
- Manual Annotations of this start: 5 of 40
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Ajin_15 (EF), Bramble_15 (EF), LordBart_15 (EF), RikSengupta_15 (EF), Sparcetus_15 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 2 times for cluster EF.
- Start number 2 was manually annotated 1 time for cluster EF.
- Start number 3 was manually annotated 32 times for cluster EF.
- Start number 4 was manually annotated 5 times for cluster EF.

Gene Information:

Gene: Aesir_60 Start: 46858, Stop: 47505, Start Num: 3

Candidate Starts for Aesir_60:

(Start: 1 @46816 has 2 MA's), (Start: 3 @46858 has 32 MA's), (5, 46996),

Gene: Ajin_15 Start: 7272, Stop: 7913, Start Num: 4

Candidate Starts for Ajin_15:

(Start: 2 @7224 has 1 MA's), (Start: 4 @7272 has 5 MA's), (5, 7404), (9, 7572), (11, 7596), (13, 7647), (14, 7860),

Gene: Anakin_61 Start: 47166, Stop: 47813, Start Num: 3

Candidate Starts for Anakin_61:

(Start: 1 @47124 has 2 MA's), (Start: 3 @47166 has 32 MA's), (5, 47304), (13, 47547),

Gene: AnnaSerena_61 Start: 47200, Stop: 47847, Start Num: 3

Candidate Starts for AnnaSerena_61:

(Start: 1 @47158 has 2 MA's), (Start: 3 @47200 has 32 MA's), (5, 47338), (13, 47581),

Gene: Annapurna_62 Start: 46707, Stop: 47354, Start Num: 3

Candidate Starts for Annapurna_62:

(Start: 1 @46665 has 2 MA's), (Start: 3 @46707 has 32 MA's), (5, 46845),

Gene: Artiphact_60 Start: 47190, Stop: 47837, Start Num: 3

Candidate Starts for Artiphact_60:

(Start: 1 @47148 has 2 MA's), (Start: 3 @47190 has 32 MA's), (5, 47328), (13, 47571),

Gene: Bramble_15 Start: 7239, Stop: 7880, Start Num: 4

Candidate Starts for Bramble_15:

(Start: 2 @7191 has 1 MA's), (Start: 4 @7239 has 5 MA's), (9, 7539), (11, 7563), (13, 7614), (14, 7827),

Gene: Chivey_62 Start: 46661, Stop: 47308, Start Num: 3

Candidate Starts for Chivey_62:

(Start: 1 @46619 has 2 MA's), (Start: 3 @46661 has 32 MA's), (5, 46799),

Gene: CoolCookie_60 Start: 47242, Stop: 47889, Start Num: 3

Candidate Starts for CoolCookie_60:

(Start: 1 @47200 has 2 MA's), (Start: 3 @47242 has 32 MA's), (5, 47380), (15, 47842),

Gene: Crestdrop_61 Start: 46885, Stop: 47532, Start Num: 3

Candidate Starts for Crestdrop_61:

(Start: 1 @46843 has 2 MA's), (Start: 3 @46885 has 32 MA's), (5, 47023),

Gene: Cybele_61 Start: 47196, Stop: 47843, Start Num: 3

Candidate Starts for Cybele_61:

(Start: 1 @47154 has 2 MA's), (Start: 3 @47196 has 32 MA's), (5, 47334), (13, 47577),

Gene: DannyDe_62 Start: 46620, Stop: 47309, Start Num: 1

Candidate Starts for DannyDe_62:

(Start: 1 @46620 has 2 MA's), (Start: 3 @46662 has 32 MA's), (5, 46800),

Gene: Dauntless_60 Start: 46793, Stop: 47440, Start Num: 3

Candidate Starts for Dauntless_60:

(Start: 1 @46751 has 2 MA's), (Start: 3 @46793 has 32 MA's), (5, 46931),

Gene: Erudite_60 Start: 46793, Stop: 47440, Start Num: 3

Candidate Starts for Erudite_60:

(Start: 1 @46751 has 2 MA's), (Start: 3 @46793 has 32 MA's), (5, 46931),

Gene: FountainFog_60 Start: 46425, Stop: 47069, Start Num: 3

Candidate Starts for FountainFog_60:

(Start: 1 @46383 has 2 MA's), (Start: 3 @46425 has 32 MA's), (6, 46581), (10, 46734),

Gene: FreddieHg_62 Start: 46678, Stop: 47325, Start Num: 3

Candidate Starts for FreddieHg_62:

(Start: 1 @46636 has 2 MA's), (Start: 3 @46678 has 32 MA's), (5, 46816),

Gene: Gilda_61 Start: 47188, Stop: 47835, Start Num: 3

Candidate Starts for Gilda_61:

(Start: 1 @47146 has 2 MA's), (Start: 3 @47188 has 32 MA's), (5, 47326), (13, 47569),

Gene: Hager_62 Start: 46579, Stop: 47226, Start Num: 3

Candidate Starts for Hager_62:

(Start: 1 @46537 has 2 MA's), (Start: 3 @46579 has 32 MA's), (5, 46717),

Gene: Haunter_61 Start: 46430, Stop: 47077, Start Num: 3

Candidate Starts for Haunter_61:

(Start: 1 @46388 has 2 MA's), (Start: 3 @46430 has 32 MA's), (5, 46568), (13, 46811),

Gene: Hiddenleaf_62 Start: 46661, Stop: 47308, Start Num: 3

Candidate Starts for Hiddenleaf_62:

(Start: 1 @46619 has 2 MA's), (Start: 3 @46661 has 32 MA's), (5, 46799),

Gene: JDawG_60 Start: 46853, Stop: 47500, Start Num: 3

Candidate Starts for JDawG_60:

(Start: 1 @46811 has 2 MA's), (Start: 3 @46853 has 32 MA's), (5, 46991),

Gene: JingleBells_61 Start: 46766, Stop: 47413, Start Num: 3

Candidate Starts for JingleBells_61:

(Start: 1 @46724 has 2 MA's), (Start: 3 @46766 has 32 MA's), (5, 46904),

Gene: Karate_60 Start: 46963, Stop: 47652, Start Num: 1

Candidate Starts for Karate_60:

(Start: 1 @46963 has 2 MA's), (Start: 3 @47005 has 32 MA's), (5, 47143),

Gene: Kate_61 Start: 47105, Stop: 47752, Start Num: 3

Candidate Starts for Kate_61:

(Start: 1 @47063 has 2 MA's), (Start: 3 @47105 has 32 MA's), (5, 47243), (13, 47486),

Gene: Krampus_61 Start: 47201, Stop: 47848, Start Num: 3

Candidate Starts for Krampus_61:

(Start: 1 @47159 has 2 MA's), (Start: 3 @47201 has 32 MA's), (5, 47339), (13, 47582),

Gene: LordBart_15 Start: 7278, Stop: 7916, Start Num: 4

Candidate Starts for LordBart_15:

(Start: 2 @7230 has 1 MA's), (Start: 4 @7278 has 5 MA's), (8, 7500), (9, 7575), (11, 7599), (13, 7650),
(14, 7863),

Gene: MortySmith_59 Start: 46267, Stop: 46914, Start Num: 3

Candidate Starts for MortySmith_59:

(Start: 1 @46225 has 2 MA's), (Start: 3 @46267 has 32 MA's), (5, 46405),

Gene: NarutoRun_61 Start: 47166, Stop: 47813, Start Num: 3

Candidate Starts for NarutoRun_61:

(Start: 1 @47124 has 2 MA's), (Start: 3 @47166 has 32 MA's), (5, 47304), (13, 47547),

Gene: Neptune_61 Start: 47196, Stop: 47843, Start Num: 3

Candidate Starts for Neptune_61:

(Start: 1 @47154 has 2 MA's), (Start: 3 @47196 has 32 MA's), (5, 47334), (13, 47577),

Gene: OhDear_61 Start: 47164, Stop: 47811, Start Num: 3

Candidate Starts for OhDear_61:

(Start: 1 @47122 has 2 MA's), (Start: 3 @47164 has 32 MA's), (5, 47302), (13, 47545),

Gene: OverHedge_60 Start: 47062, Stop: 47709, Start Num: 3

Candidate Starts for OverHedge_60:

(Start: 1 @47020 has 2 MA's), (Start: 3 @47062 has 32 MA's), (5, 47200), (13, 47443),

Gene: Pharpay_60 Start: 47211, Stop: 47858, Start Num: 3

Candidate Starts for Pharpay_60:

(Start: 1 @47169 has 2 MA's), (Start: 3 @47211 has 32 MA's), (5, 47349), (13, 47592),

Gene: PhunaPhoke_61 Start: 47181, Stop: 47828, Start Num: 3

Candidate Starts for PhunaPhoke_61:

(Start: 1 @47139 has 2 MA's), (Start: 3 @47181 has 32 MA's), (5, 47319), (13, 47562),

Gene: Potty_60 Start: 47111, Stop: 47758, Start Num: 3

Candidate Starts for Potty_60:

(Start: 1 @47069 has 2 MA's), (Start: 3 @47111 has 32 MA's), (5, 47249), (13, 47492),

Gene: Poultress_60 Start: 47408, Stop: 48055, Start Num: 3

Candidate Starts for Poultress_60:

(Start: 1 @47366 has 2 MA's), (Start: 3 @47408 has 32 MA's), (5, 47546), (7, 47630), (13, 47789), (15, 48008),

Gene: Rachella_61 Start: 47192, Stop: 47839, Start Num: 3

Candidate Starts for Rachella_61:

(Start: 1 @47150 has 2 MA's), (Start: 3 @47192 has 32 MA's), (5, 47330), (13, 47573),

Gene: Rie18_61 Start: 46994, Stop: 47638, Start Num: 3

Candidate Starts for Rie18_61:

(Start: 1 @46952 has 2 MA's), (Start: 3 @46994 has 32 MA's), (6, 47150),

Gene: RikSengupta_15 Start: 7375, Stop: 7995, Start Num: 4

Candidate Starts for RikSengupta_15:

(Start: 2 @7327 has 1 MA's), (Start: 4 @7375 has 5 MA's), (9, 7675), (11, 7699), (13, 7750), (16, 7972),

Gene: SilentWarrior_62 Start: 46627, Stop: 47274, Start Num: 3

Candidate Starts for SilentWarrior_62:

(Start: 1 @46585 has 2 MA's), (Start: 3 @46627 has 32 MA's), (5, 46765),

Gene: Snakehole_62 Start: 46608, Stop: 47255, Start Num: 3

Candidate Starts for Snakehole_62:

(Start: 1 @46566 has 2 MA's), (Start: 3 @46608 has 32 MA's), (5, 46746),

Gene: Sparcetus_15 Start: 7254, Stop: 7874, Start Num: 4

Candidate Starts for Sparcetus_15:

(Start: 2 @7206 has 1 MA's), (Start: 4 @7254 has 5 MA's), (9, 7554), (11, 7578), (13, 7629), (16, 7851),

Gene: Tedro_61 Start: 46648, Stop: 47295, Start Num: 3

Candidate Starts for Tedro_61:

(Start: 1 @46606 has 2 MA's), (Start: 3 @46648 has 32 MA's), (5, 46786),

Gene: TinyMiny_15 Start: 7204, Stop: 7893, Start Num: 2

Candidate Starts for TinyMiny_15:

(Start: 2 @7204 has 1 MA's), (Start: 4 @7252 has 5 MA's), (9, 7552), (11, 7576), (12, 7609), (13, 7627), (14, 7840),

Gene: Tongui_61 Start: 46861, Stop: 47508, Start Num: 3

Candidate Starts for Tongui_61:

(Start: 1 @46819 has 2 MA's), (Start: 3 @46861 has 32 MA's),