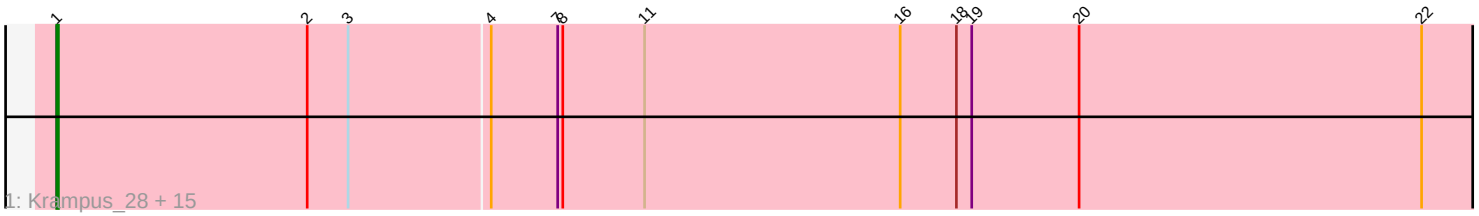
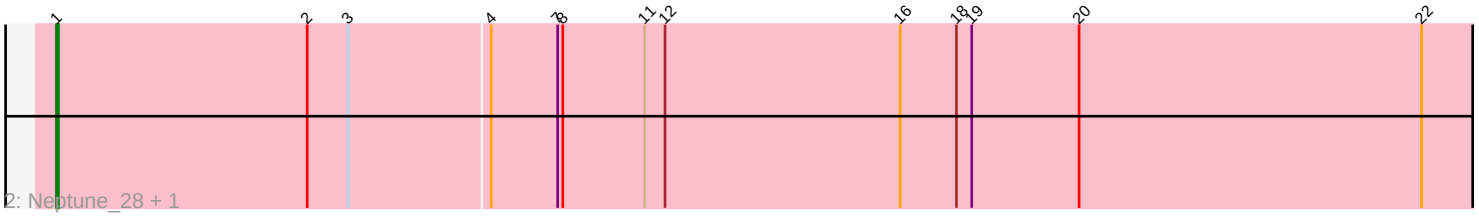
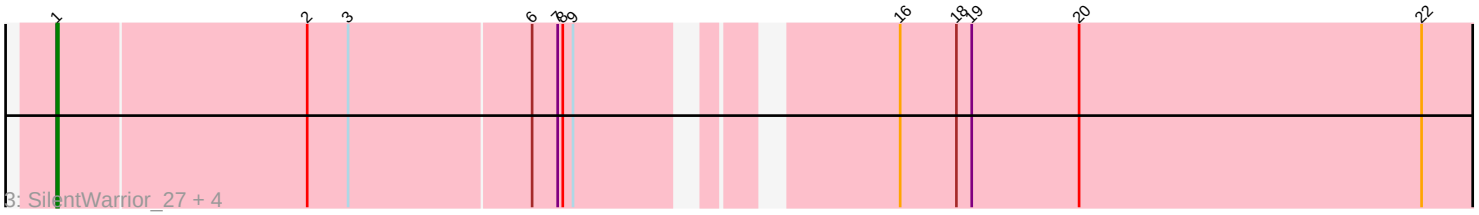
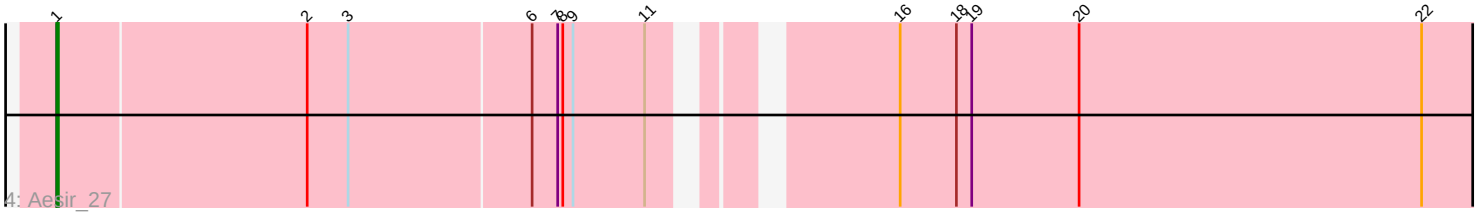
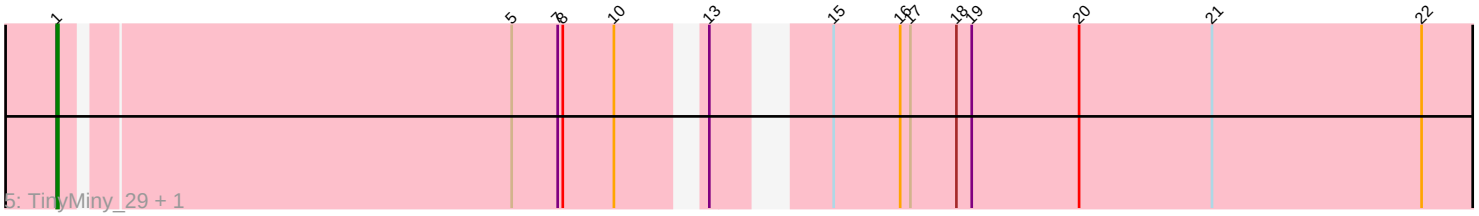
Pham 347908

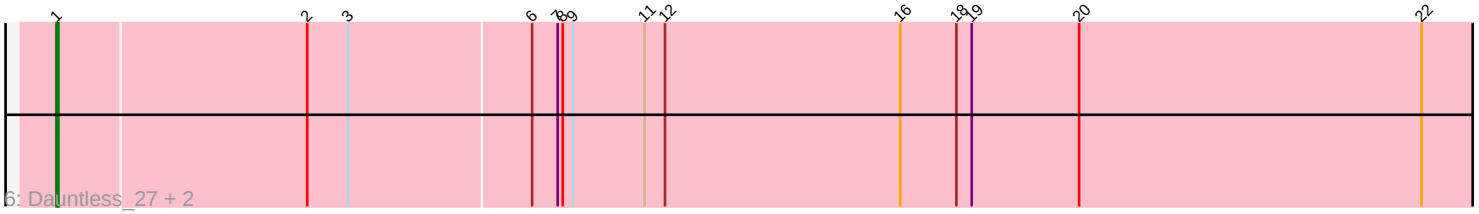

1
2
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11
16
18
19
20
22
1: Krampus_28 + 15

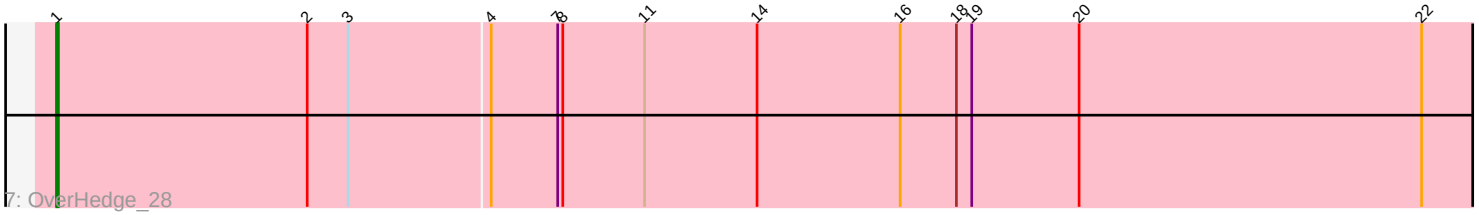

1
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16
18
19
20
22
2: Neptune_28 + 1


1
2
3
6
7
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9
16
18
19
20
22
3: SilentWarrior_27 + 4


1
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3
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16
18
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20
22
4: Aesir_27


1
5
7
8
10
13
15
16
17
18
19
20
21
22
5: TinyMiny_29 + 1


1
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3
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12
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22
6: Dauntless_27 + 2


1
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22
7: OverHedge_28

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 347908 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347908 has 30 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Krampus_28, Karate_27, Tiggy93_28, Anakin_28, Poultress_27, Haunter_28, Potty_28, Tedro_28, Kate_28, PhunaPhoke_28, CoolCookie_28, NarutoRun_28, Pharpay_28, Gilda_28, AnnaSerena_28, Rie18_28
• Track 2 : Neptune_28, Cybele_28
• Track 3 : SilentWarrior_27, Hiddenleaf_27, DannyDe_27, FreddieHg_27, Chivey_27
• Track 4 : Aesir_27
• Track 5 : TinyMiny_29, RikSengupta_29
• Track 6 : Dauntless_27, JingleBells_27, Crestdrop_27
• Track 7 : OverHedge_28

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

The start number called the most often in the published annotations is 1, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aesir_27, Anakin_28, AnnaSerena_28, Chivey_27, CoolCookie_28, Crestdrop_27, Cybele_28, DannyDe_27, Dauntless_27, FreddieHg_27, Gilda_28, Haunter_28, Hiddenleaf_27, JingleBells_27, Karate_27, Kate_28, Krampus_28, NarutoRun_28, Neptune_28, OverHedge_28, Pharpay_28, PhunaPhoke_28, Potty_28, Poultress_27, Rie18_28, RikSengupta_29, SilentWarrior_27, Tedro_28, Tiggy93_28, TinyMiny_29,

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

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

Summary by start number:

Start 1:
• Found in 30 of 30 (100.0%) of genes in pham
• Manual Annotations of this start: 30 of 30
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aesir_27 (EF), Anakin_28 (EF), AnnaSerena_28 (EF), Chivey_27 (EF), CoolCookie_28 (EF), Crestdrop_27 (EF), Cybele_28 (EF), DannyDe_27 (EF), Dauntless_27 (EF), FreddieHg_27 (EF), Gilda_28 (EF), Haunter_28 (EF), Hiddenleaf_27 (EF), JingleBells_27 (EF), Karate_27 (EF), Kate_28 (EF), Krampus_28 (EF), NarutoRun_28 (EF), Neptune_28 (EF), OverHedge_28 (EF), Pharpay_28 (EF), PhunaPhoke_28 (EF), Potty_28 (EF), Poultress_27 (EF), Rie18_28 (EF), RikSengupta_29 (EF), SilentWarrior_27 (EF), Tedro_28 (EF), Tiggy93_28 (EF), TinyMiny_29 (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 30 times for cluster EF.

Gene Information:

Gene: Aesir_27 Start: 13825, Stop: 14653, Start Num: 1
Candidate Starts for Aesir_27:
(Start: 1 @13825 has 30 MA's), (2, 13969), (3, 13993), (6, 14098), (7, 14113), (8, 14116), (9, 14122), (11, 14164), (16, 14275), (18, 14308), (19, 14317), (20, 14380), (22, 14581),

Gene: Anakin_28 Start: 14035, Stop: 14905, Start Num: 1
Candidate Starts for Anakin_28:
(Start: 1 @14035 has 30 MA's), (2, 14182), (3, 14206), (4, 14287), (7, 14326), (8, 14329), (11, 14377), (16, 14527), (18, 14560), (19, 14569), (20, 14632), (22, 14833),

Gene: AnnaSerena_28 Start: 14044, Stop: 14914, Start Num: 1
Candidate Starts for AnnaSerena_28:
(Start: 1 @14044 has 30 MA's), (2, 14191), (3, 14215), (4, 14296), (7, 14335), (8, 14338), (11, 14386), (16, 14536), (18, 14569), (19, 14578), (20, 14641), (22, 14842),

Gene: Chivey_27 Start: 13241, Stop: 14069, Start Num: 1
Candidate Starts for Chivey_27:
(Start: 1 @13241 has 30 MA's), (2, 13385), (3, 13409), (6, 13514), (7, 13529), (8, 13532), (9, 13538), (16, 13691), (18, 13724), (19, 13733), (20, 13796), (22, 13997),

Gene: CoolCookie_28 Start: 14042, Stop: 14912, Start Num: 1
Candidate Starts for CoolCookie_28:
(Start: 1 @14042 has 30 MA's), (2, 14189), (3, 14213), (4, 14294), (7, 14333), (8, 14336), (11, 14384), (16, 14534), (18, 14567), (19, 14576), (20, 14639), (22, 14840),

Gene: Crestdrop_27 Start: 13111, Stop: 13978, Start Num: 1
Candidate Starts for Crestdrop_27:
(Start: 1 @13111 has 30 MA's), (2, 13255), (3, 13279), (6, 13384), (7, 13399), (8, 13402), (9, 13408), (11, 13450), (12, 13462), (16, 13600), (18, 13633), (19, 13642), (20, 13705), (22, 13906),

Gene: Cybele_28 Start: 14012, Stop: 14882, Start Num: 1
Candidate Starts for Cybele_28:

(Start: 1 @14012 has 30 MA's), (2, 14159), (3, 14183), (4, 14264), (7, 14303), (8, 14306), (11, 14354), (12, 14366), (16, 14504), (18, 14537), (19, 14546), (20, 14609), (22, 14810),

Gene: DannyDe_27 Start: 13233, Stop: 14061, Start Num: 1
Candidate Starts for DannyDe_27:
(Start: 1 @13233 has 30 MA's), (2, 13377), (3, 13401), (6, 13506), (7, 13521), (8, 13524), (9, 13530), (16, 13683), (18, 13716), (19, 13725), (20, 13788), (22, 13989),

Gene: Dauntless_27 Start: 13754, Stop: 14621, Start Num: 1
Candidate Starts for Dauntless_27:
(Start: 1 @13754 has 30 MA's), (2, 13898), (3, 13922), (6, 14027), (7, 14042), (8, 14045), (9, 14051), (11, 14093), (12, 14105), (16, 14243), (18, 14276), (19, 14285), (20, 14348), (22, 14549),

Gene: FreddieHg_27 Start: 13257, Stop: 14085, Start Num: 1
Candidate Starts for FreddieHg_27:
(Start: 1 @13257 has 30 MA's), (2, 13401), (3, 13425), (6, 13530), (7, 13545), (8, 13548), (9, 13554), (16, 13707), (18, 13740), (19, 13749), (20, 13812), (22, 14013),

Gene: Gilda_28 Start: 14036, Stop: 14906, Start Num: 1
Candidate Starts for Gilda_28:
(Start: 1 @14036 has 30 MA's), (2, 14183), (3, 14207), (4, 14288), (7, 14327), (8, 14330), (11, 14378), (16, 14528), (18, 14561), (19, 14570), (20, 14633), (22, 14834),

Gene: Haunter_28 Start: 13449, Stop: 14319, Start Num: 1
Candidate Starts for Haunter_28:
(Start: 1 @13449 has 30 MA's), (2, 13596), (3, 13620), (4, 13701), (7, 13740), (8, 13743), (11, 13791), (16, 13941), (18, 13974), (19, 13983), (20, 14046), (22, 14247),

Gene: Hiddenleaf_27 Start: 13241, Stop: 14069, Start Num: 1
Candidate Starts for Hiddenleaf_27:
(Start: 1 @13241 has 30 MA's), (2, 13385), (3, 13409), (6, 13514), (7, 13529), (8, 13532), (9, 13538), (16, 13691), (18, 13724), (19, 13733), (20, 13796), (22, 13997),

Gene: JingleBells_27 Start: 13318, Stop: 14185, Start Num: 1
Candidate Starts for JingleBells_27:
(Start: 1 @13318 has 30 MA's), (2, 13462), (3, 13486), (6, 13591), (7, 13606), (8, 13609), (9, 13615), (11, 13657), (12, 13669), (16, 13807), (18, 13840), (19, 13849), (20, 13912), (22, 14113),

Gene: Karate_27 Start: 13448, Stop: 14318, Start Num: 1
Candidate Starts for Karate_27:
(Start: 1 @13448 has 30 MA's), (2, 13595), (3, 13619), (4, 13700), (7, 13739), (8, 13742), (11, 13790), (16, 13940), (18, 13973), (19, 13982), (20, 14045), (22, 14246),

Gene: Kate_28 Start: 14044, Stop: 14914, Start Num: 1
Candidate Starts for Kate_28:
(Start: 1 @14044 has 30 MA's), (2, 14191), (3, 14215), (4, 14296), (7, 14335), (8, 14338), (11, 14386), (16, 14536), (18, 14569), (19, 14578), (20, 14641), (22, 14842),

Gene: Krampus_28 Start: 14042, Stop: 14912, Start Num: 1
Candidate Starts for Krampus_28:
(Start: 1 @14042 has 30 MA's), (2, 14189), (3, 14213), (4, 14294), (7, 14333), (8, 14336), (11, 14384), (16, 14534), (18, 14567), (19, 14576), (20, 14639), (22, 14840),

Gene: NarutoRun_28 Start: 14035, Stop: 14905, Start Num: 1
Candidate Starts for NarutoRun_28:
(Start: 1 @14035 has 30 MA's), (2, 14182), (3, 14206), (4, 14287), (7, 14326), (8, 14329), (11, 14377), (16, 14527), (18, 14560), (19, 14569), (20, 14632), (22, 14833),

Gene: Neptune_28 Start: 14012, Stop: 14882, Start Num: 1
Candidate Starts for Neptune_28:
(Start: 1 @14012 has 30 MA's), (2, 14159), (3, 14183), (4, 14264), (7, 14303), (8, 14306), (11, 14354), (12, 14366), (16, 14504), (18, 14537), (19, 14546), (20, 14609), (22, 14810),

Gene: OverHedge_28 Start: 14002, Stop: 14872, Start Num: 1
Candidate Starts for OverHedge_28:
(Start: 1 @14002 has 30 MA's), (2, 14149), (3, 14173), (4, 14254), (7, 14293), (8, 14296), (11, 14344), (14, 14410), (16, 14494), (18, 14527), (19, 14536), (20, 14599), (22, 14800),

Gene: Pharpay_28 Start: 14057, Stop: 14927, Start Num: 1
Candidate Starts for Pharpay_28:
(Start: 1 @14057 has 30 MA's), (2, 14204), (3, 14228), (4, 14309), (7, 14348), (8, 14351), (11, 14399), (16, 14549), (18, 14582), (19, 14591), (20, 14654), (22, 14855),

Gene: PhunaPhoke_28 Start: 14030, Stop: 14900, Start Num: 1
Candidate Starts for PhunaPhoke_28:
(Start: 1 @14030 has 30 MA's), (2, 14177), (3, 14201), (4, 14282), (7, 14321), (8, 14324), (11, 14372), (16, 14522), (18, 14555), (19, 14564), (20, 14627), (22, 14828),

Gene: Potty_28 Start: 14035, Stop: 14905, Start Num: 1
Candidate Starts for Potty_28:
(Start: 1 @14035 has 30 MA's), (2, 14182), (3, 14206), (4, 14287), (7, 14326), (8, 14329), (11, 14377), (16, 14527), (18, 14560), (19, 14569), (20, 14632), (22, 14833),

Gene: Poultress_27 Start: 13799, Stop: 14669, Start Num: 1
Candidate Starts for Poultress_27:
(Start: 1 @13799 has 30 MA's), (2, 13946), (3, 13970), (4, 14051), (7, 14090), (8, 14093), (11, 14141), (16, 14291), (18, 14324), (19, 14333), (20, 14396), (22, 14597),

Gene: Rie18_28 Start: 13380, Stop: 14250, Start Num: 1
Candidate Starts for Rie18_28:
(Start: 1 @13380 has 30 MA's), (2, 13527), (3, 13551), (4, 13632), (7, 13671), (8, 13674), (11, 13722), (16, 13872), (18, 13905), (19, 13914), (20, 13977), (22, 14178),

Gene: RikSengupta_29 Start: 14054, Stop: 14879, Start Num: 1
Candidate Starts for RikSengupta_29:
(Start: 1 @14054 has 30 MA's), (5, 14309), (7, 14336), (8, 14339), (10, 14369), (13, 14408), (15, 14456), (16, 14495), (17, 14501), (18, 14528), (19, 14537), (20, 14600), (21, 14678), (22, 14801),

Gene: SilentWarrior_27 Start: 13249, Stop: 14077, Start Num: 1
Candidate Starts for SilentWarrior_27:
(Start: 1 @13249 has 30 MA's), (2, 13393), (3, 13417), (6, 13522), (7, 13537), (8, 13540), (9, 13546), (16, 13699), (18, 13732), (19, 13741), (20, 13804), (22, 14005),

Gene: Tedro_28 Start: 13508, Stop: 14378, Start Num: 1
Candidate Starts for Tedro_28:

(Start: 1 @13508 has 30 MA's), (2, 13655), (3, 13679), (4, 13760), (7, 13799), (8, 13802), (11, 13850), (16, 14000), (18, 14033), (19, 14042), (20, 14105), (22, 14306),

Gene: Tiggy93_28 Start: 14041, Stop: 14911, Start Num: 1
Candidate Starts for Tiggy93_28:
(Start: 1 @14041 has 30 MA's), (2, 14188), (3, 14212), (4, 14293), (7, 14332), (8, 14335), (11, 14383), (16, 14533), (18, 14566), (19, 14575), (20, 14638), (22, 14839),

Gene: TinyMiny_29 Start: 13952, Stop: 14777, Start Num: 1
Candidate Starts for TinyMiny_29:
(Start: 1 @13952 has 30 MA's), (5, 14207), (7, 14234), (8, 14237), (10, 14267), (13, 14306), (15, 14354), (16, 14393), (17, 14399), (18, 14426), (19, 14435), (20, 14498), (21, 14576), (22, 14699),