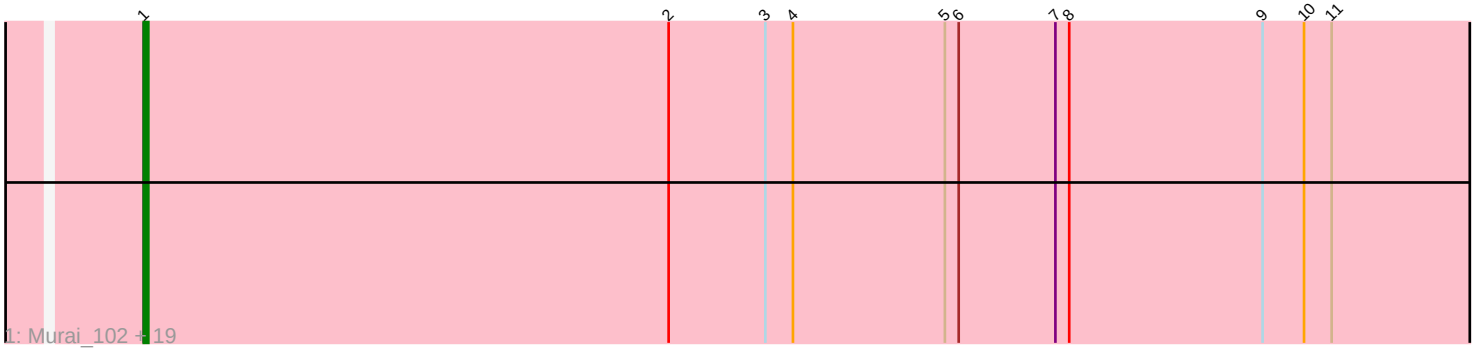
# Pham 3400


1
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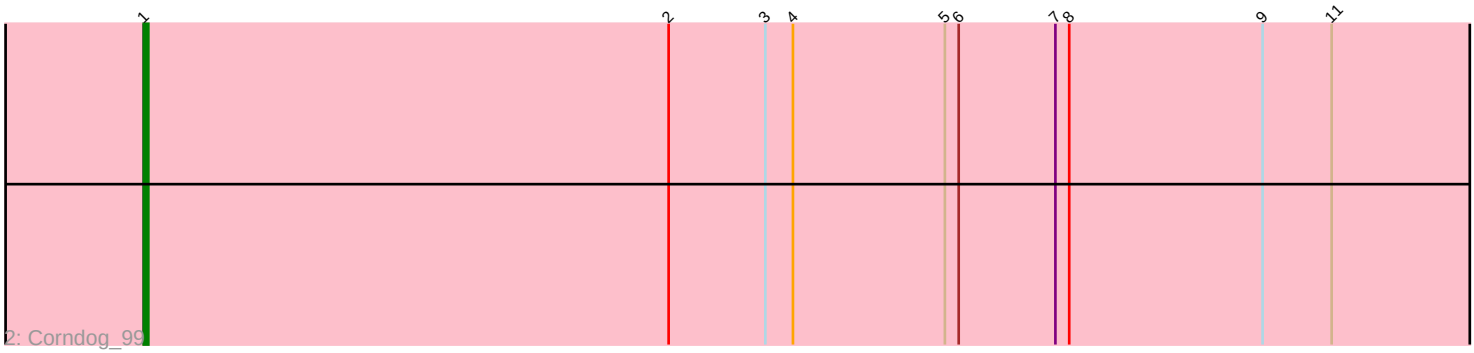
10
11
1: Murai_102 + 19


1
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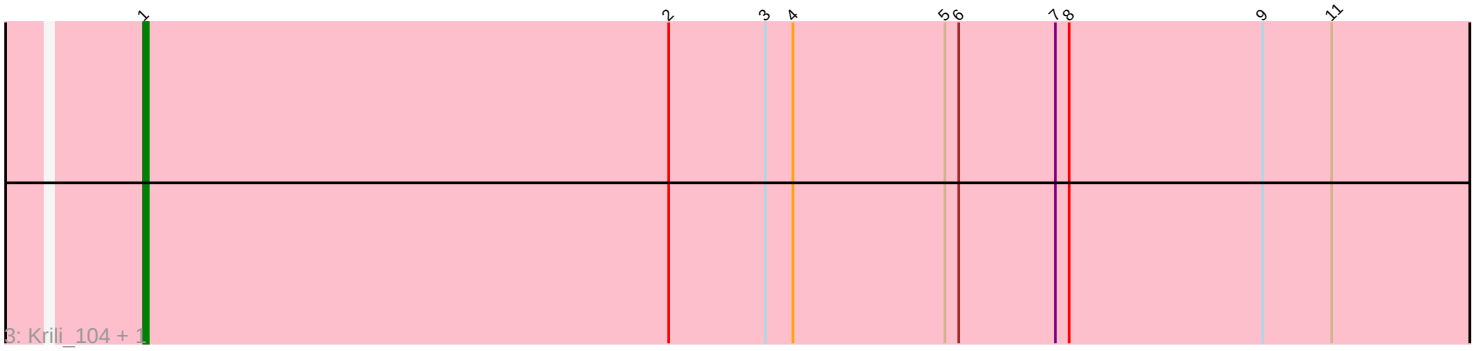
2: Corndog_99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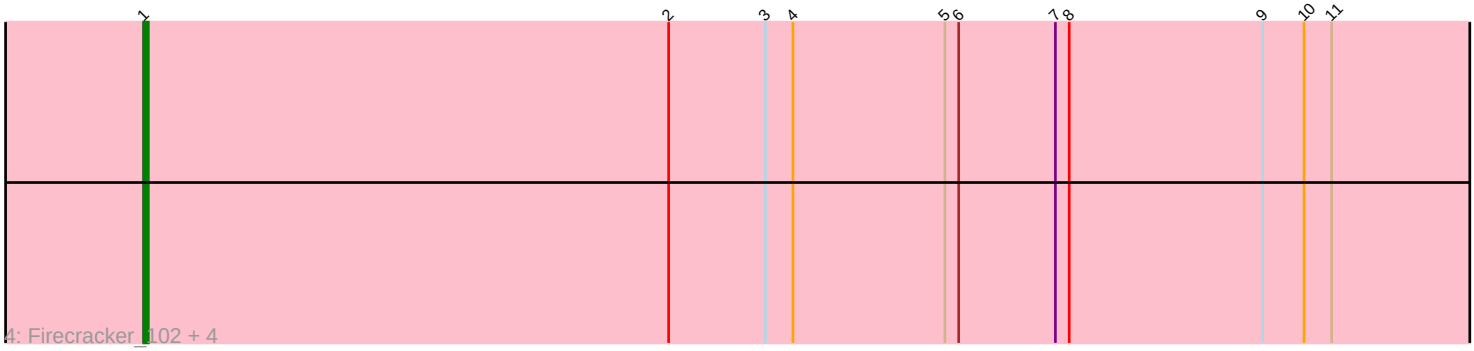
3: Krili_104 + 1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4: Firecracker_102 + 4

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 3400 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3400 has 28 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Murai_102, FoulBall_98, Shida_104, Ryadel_106, Winget_102, YungJamal_101, Familton_103, Catdawg_103, Schuy_99, MadKillah_105, Mori_102, Vorrps_102, Alkhayr_98, JangDynasty_98, Blessica_100, SchoolBus_101, TelAviv_99, Smooch_101, Bora_101, NiebruSaylor_102
• Track 2 : Corndog_99
• Track 3 : Krili_104, Idergollasper_104
• Track 4 : Firecracker_102, Dylan_97, Ashwin_98, Wildflower_96, Zakhe101_97

***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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_98, Ashwin_98, Blessica_100, Bora_101, Catdawg_103, Corndog_99, Dylan_97, Familton_103, Firecracker_102, FoulBall_98, Idergollasper_104, JangDynasty_98, Krili_104, MadKillah_105, Mori_102, Murai_102, NiebruSaylor_102, Ryadel_106, SchoolBus_101, Schuy_99, Shida_104, Smooch_101, TelAviv_99, Vorrps_102, Wildflower_96, Winget_102, YungJamal_101, Zakhe101_97,

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 28 of 28 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 22 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alkhayr_98 (O), Ashwin_98 (O), Blessica_100 (O), Bora_101 (O), Catdawg_103 (O), Corndog_99 (O), Dylan_97 (O),

Familton_103 (O), Firecracker_102 (O), FoulBall_98 (O), Idergollasper_104 (O), JangDynasty_98 (O), Krili_104 (O), MadKillah_105 (O), Mori_102 (O), Murai_102 (O), NiebruSaylor_102 (O), Ryadel_106 (O), SchoolBus_101 (O), Schuy_99 (O), Shida_104 (O), Smooch_101 (O), TelAviv_99 (O), Vorrps_102 (O), Wildflower_96 (O), Winget_102 (O), YungJamal_101 (O), Zakhe101_97 (O),

**Summary by clusters:**

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:
•Start number 1 was manually annotated 22 times for cluster O.

***Gene Information:***

Gene: Alkhayr_98 Start: 62445, Stop: 62155, Start Num: 1
Candidate Starts for Alkhayr_98:
(Start: 1 @62445 has 22 MA's), (2, 62331), (3, 62310), (4, 62304), (5, 62271), (6, 62268), (7, 62247), (8, 62244), (9, 62202), (10, 62193), (11, 62187),

Gene: Ashwin_98 Start: 61678, Stop: 61388, Start Num: 1
Candidate Starts for Ashwin_98:
(Start: 1 @61678 has 22 MA's), (2, 61564), (3, 61543), (4, 61537), (5, 61504), (6, 61501), (7, 61480), (8, 61477), (9, 61435), (10, 61426), (11, 61420),

Gene: Blessica_100 Start: 62653, Stop: 62363, Start Num: 1
Candidate Starts for Blessica_100:
(Start: 1 @62653 has 22 MA's), (2, 62539), (3, 62518), (4, 62512), (5, 62479), (6, 62476), (7, 62455), (8, 62452), (9, 62410), (10, 62401), (11, 62395),

Gene: Bora_101 Start: 63495, Stop: 63205, Start Num: 1
Candidate Starts for Bora_101:
(Start: 1 @63495 has 22 MA's), (2, 63381), (3, 63360), (4, 63354), (5, 63321), (6, 63318), (7, 63297), (8, 63294), (9, 63252), (10, 63243), (11, 63237),

Gene: Catdawg_103 Start: 63765, Stop: 63475, Start Num: 1
Candidate Starts for Catdawg_103:
(Start: 1 @63765 has 22 MA's), (2, 63651), (3, 63630), (4, 63624), (5, 63591), (6, 63588), (7, 63567), (8, 63564), (9, 63522), (10, 63513), (11, 63507),

Gene: Corndog_99 Start: 61588, Stop: 61298, Start Num: 1
Candidate Starts for Corndog_99:
(Start: 1 @61588 has 22 MA's), (2, 61474), (3, 61453), (4, 61447), (5, 61414), (6, 61411), (7, 61390), (8, 61387), (9, 61345), (11, 61330),

Gene: Dylan_97 Start: 61411, Stop: 61121, Start Num: 1
Candidate Starts for Dylan_97:
(Start: 1 @61411 has 22 MA's), (2, 61297), (3, 61276), (4, 61270), (5, 61237), (6, 61234), (7, 61213), (8, 61210), (9, 61168), (10, 61159), (11, 61153),

Gene: Familton_103 Start: 63177, Stop: 62887, Start Num: 1

Candidate Starts for Familton_103:
(Start: 1 @63177 has 22 MA's), (2, 63063), (3, 63042), (4, 63036), (5, 63003), (6, 63000), (7, 62979), (8, 62976), (9, 62934), (10, 62925), (11, 62919),

Gene: Firecracker_102 Start: 63047, Stop: 62757, Start Num: 1
Candidate Starts for Firecracker_102:
(Start: 1 @63047 has 22 MA's), (2, 62933), (3, 62912), (4, 62906), (5, 62873), (6, 62870), (7, 62849), (8, 62846), (9, 62804), (10, 62795), (11, 62789),

Gene: FoulBall_98 Start: 62728, Stop: 62438, Start Num: 1
Candidate Starts for FoulBall_98:
(Start: 1 @62728 has 22 MA's), (2, 62614), (3, 62593), (4, 62587), (5, 62554), (6, 62551), (7, 62530), (8, 62527), (9, 62485), (10, 62476), (11, 62470),

Gene: Idergollasper_104 Start: 63728, Stop: 63438, Start Num: 1
Candidate Starts for Idergollasper_104:
(Start: 1 @63728 has 22 MA's), (2, 63614), (3, 63593), (4, 63587), (5, 63554), (6, 63551), (7, 63530), (8, 63527), (9, 63485), (11, 63470),

Gene: JangDynasty_98 Start: 62078, Stop: 61788, Start Num: 1
Candidate Starts for JangDynasty_98:
(Start: 1 @62078 has 22 MA's), (2, 61964), (3, 61943), (4, 61937), (5, 61904), (6, 61901), (7, 61880), (8, 61877), (9, 61835), (10, 61826), (11, 61820),

Gene: Krili_104 Start: 63277, Stop: 62987, Start Num: 1
Candidate Starts for Krili_104:
(Start: 1 @63277 has 22 MA's), (2, 63163), (3, 63142), (4, 63136), (5, 63103), (6, 63100), (7, 63079), (8, 63076), (9, 63034), (11, 63019),

Gene: MadKillah_105 Start: 62800, Stop: 62510, Start Num: 1
Candidate Starts for MadKillah_105:
(Start: 1 @62800 has 22 MA's), (2, 62686), (3, 62665), (4, 62659), (5, 62626), (6, 62623), (7, 62602), (8, 62599), (9, 62557), (10, 62548), (11, 62542),

Gene: Mori_102 Start: 63303, Stop: 63013, Start Num: 1
Candidate Starts for Mori_102:
(Start: 1 @63303 has 22 MA's), (2, 63189), (3, 63168), (4, 63162), (5, 63129), (6, 63126), (7, 63105), (8, 63102), (9, 63060), (10, 63051), (11, 63045),

Gene: Murai_102 Start: 63151, Stop: 62861, Start Num: 1
Candidate Starts for Murai_102:
(Start: 1 @63151 has 22 MA's), (2, 63037), (3, 63016), (4, 63010), (5, 62977), (6, 62974), (7, 62953), (8, 62950), (9, 62908), (10, 62899), (11, 62893),

Gene: NiebruSaylor_102 Start: 62418, Stop: 62128, Start Num: 1
Candidate Starts for NiebruSaylor_102:
(Start: 1 @62418 has 22 MA's), (2, 62304), (3, 62283), (4, 62277), (5, 62244), (6, 62241), (7, 62220), (8, 62217), (9, 62175), (10, 62166), (11, 62160),

Gene: Ryadel_106 Start: 64136, Stop: 63846, Start Num: 1
Candidate Starts for Ryadel_106:
(Start: 1 @64136 has 22 MA's), (2, 64022), (3, 64001), (4, 63995), (5, 63962), (6, 63959), (7, 63938), (8, 63935), (9, 63893), (10, 63884), (11, 63878),

Gene: SchoolBus_101 Start: 62894, Stop: 62604, Start Num: 1
Candidate Starts for SchoolBus_101:
(Start: 1 @62894 has 22 MA's), (2, 62780), (3, 62759), (4, 62753), (5, 62720), (6, 62717), (7, 62696), (8, 62693), (9, 62651), (10, 62642), (11, 62636),

Gene: Schuy_99 Start: 62513, Stop: 62223, Start Num: 1
Candidate Starts for Schuy_99:
(Start: 1 @62513 has 22 MA's), (2, 62399), (3, 62378), (4, 62372), (5, 62339), (6, 62336), (7, 62315), (8, 62312), (9, 62270), (10, 62261), (11, 62255),

Gene: Shida_104 Start: 63405, Stop: 63115, Start Num: 1
Candidate Starts for Shida_104:
(Start: 1 @63405 has 22 MA's), (2, 63291), (3, 63270), (4, 63264), (5, 63231), (6, 63228), (7, 63207), (8, 63204), (9, 63162), (10, 63153), (11, 63147),

Gene: Smooch_101 Start: 63286, Stop: 62996, Start Num: 1
Candidate Starts for Smooch_101:
(Start: 1 @63286 has 22 MA's), (2, 63172), (3, 63151), (4, 63145), (5, 63112), (6, 63109), (7, 63088), (8, 63085), (9, 63043), (10, 63034), (11, 63028),

Gene: TelAviv_99 Start: 63130, Stop: 62840, Start Num: 1
Candidate Starts for TelAviv_99:
(Start: 1 @63130 has 22 MA's), (2, 63016), (3, 62995), (4, 62989), (5, 62956), (6, 62953), (7, 62932), (8, 62929), (9, 62887), (10, 62878), (11, 62872),

Gene: Vorrps_102 Start: 63304, Stop: 63014, Start Num: 1
Candidate Starts for Vorrps_102:
(Start: 1 @63304 has 22 MA's), (2, 63190), (3, 63169), (4, 63163), (5, 63130), (6, 63127), (7, 63106), (8, 63103), (9, 63061), (10, 63052), (11, 63046),

Gene: Wildflower_96 Start: 61310, Stop: 61020, Start Num: 1
Candidate Starts for Wildflower_96:
(Start: 1 @61310 has 22 MA's), (2, 61196), (3, 61175), (4, 61169), (5, 61136), (6, 61133), (7, 61112), (8, 61109), (9, 61067), (10, 61058), (11, 61052),

Gene: Winget_102 Start: 63198, Stop: 62908, Start Num: 1
Candidate Starts for Winget_102:
(Start: 1 @63198 has 22 MA's), (2, 63084), (3, 63063), (4, 63057), (5, 63024), (6, 63021), (7, 63000), (8, 62997), (9, 62955), (10, 62946), (11, 62940),

Gene: YungJamal_101 Start: 62361, Stop: 62071, Start Num: 1
Candidate Starts for YungJamal_101:
(Start: 1 @62361 has 22 MA's), (2, 62247), (3, 62226), (4, 62220), (5, 62187), (6, 62184), (7, 62163), (8, 62160), (9, 62118), (10, 62109), (11, 62103),

Gene: Zakhe101_97 Start: 61415, Stop: 61125, Start Num: 1
Candidate Starts for Zakhe101_97:
(Start: 1 @61415 has 22 MA's), (2, 61301), (3, 61280), (4, 61274), (5, 61241), (6, 61238), (7, 61217), (8, 61214), (9, 61172), (10, 61163), (11, 61157),