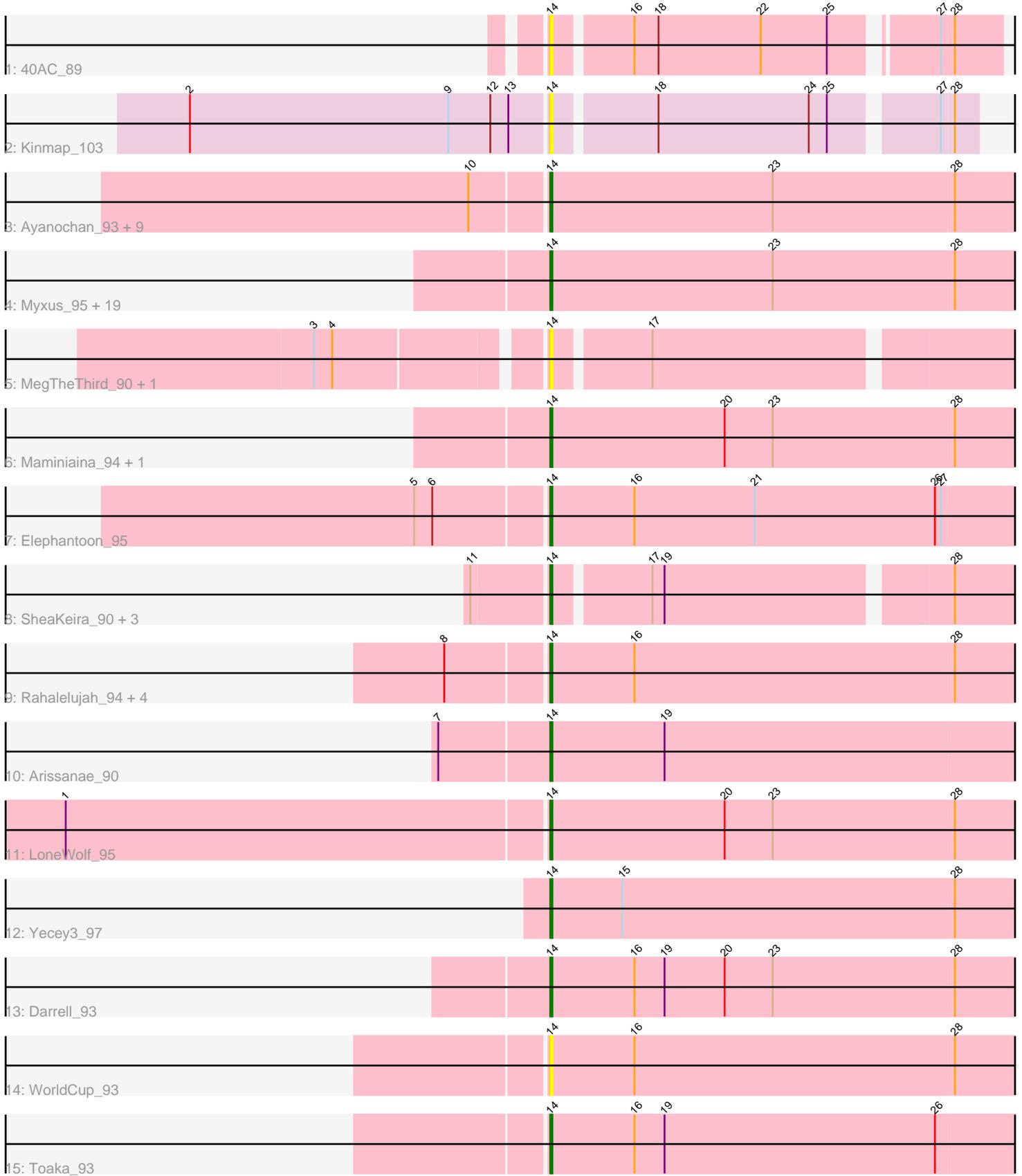# Pham 285651

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 285651 Report

This analysis was run 03/28/26 on database version 641.

Pham number 285651 has 52 members, 18 are drafts.

Phages represented in each track:
• Track 1 : 40AC_89
• Track 2 : Kinmap_103
• Track 3 : Ayanochan_93, Qobbit_93, ExplosioNervosa_93, EmyBug_92, Alma_93, Fayely_93, Spouty_93, Eidsmoe_93, Conquerage_93, Priya_93
• Track 4 : Myxus_95, Holex_94, Phonnegut_95, Pioneer_95, Phaeder_95, Catalina_97, Jiawan_93, Ugenie5_82, HortumSL17_96, Tubs_95, Hanray_93, Scherzo_93, PackMan_90, Beemo_95, Sachima_91, EdogawaKiddo_94, RyeScarlet_96, Onglai_93, Aliter_88, Lilleskat_92
• Track 5 : MegTheThird_90, Celestialunch_89
• Track 6 : Maminiaina_94, BogosyJay_94
• Track 7 : Elephantoon_95
• Track 8 : SheaKeira_90, Charm_90, Klodlith_91, DreamTeam1_91
• Track 9 : Rahalelujah_94, Vanisoa_90, Minispark_92, CogOmlette_92, Bellris_92
• Track 10 : Arissanae_90
• Track 11 : LoneWolf_95
• Track 12 : Yecey3_97
• Track 13 : Darrell_93
• Track 14 : WorldCup_93
• Track 15 : Toaka_93

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

The start number called the most often in the published annotations is 14, it was called in 34 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 40AC_89, Aliter_88, Alma_93, Arissanae_90, Ayanochan_93, Beemo_95, Bellris_92, BogosyJay_94, Catalina_97, Celestialunch_89, Charm_90, CogOmlette_92, Conquerage_93, Darrell_93, DreamTeam1_91, EdogawaKiddo_94, Eidsmoe_93, Elephantoon_95, EmyBug_92, ExplosioNervosa_93, Fayely_93, Hanray_93, Holex_94, HortumSL17_96, Jiawan_93, Kinmap_103, Klodlith_91, Lilleskat_92, LoneWolf_95, Maminiaina_94, MegTheThird_90, Minispark_92, Myxus_95, Onglai_93, PackMan_90, Phaeder_95, Phonnegut_95, Pioneer_95, Priya_93, Qobbit_93, Rahalelujah_94, RyeScarlet_96, Sachima_91, Scherzo_93,

SheaKeira_90, Spouty_93, Toaka_93, Tubs_95, Ugenie5_82, Vanisoa_90, WorldCup_93, Yecey3_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 14:
• Found in 52 of 52 (100.0%) of genes in pham
• Manual Annotations of this start: 34 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 40AC_89 (A17), Aliter_88 (A9), Alma_93 (A9), Arissanae_90 (A9), Ayanochan_93 (A9), Beemo_95 (A9), Bellris_92 (A9), BogosyJay_94 (A9), Catalina_97 (A9), Celestialunch_89 (A9), Charm_90 (A9), CogOmlette_92 (A9), Conquerage_93 (A9), Darrell_93 (A9), DreamTeam1_91 (A9), EdogawaKiddo_94 (A9), Eidsmoe_93 (A9), Elephantoon_95 (A9), EmyBug_92 (A9), ExplosioNervosa_93 (A9), Fayely_93 (A9), Hanray_93 (A9), Holex_94 (A9), HortumSL17_96 (A9), Jiawan_93 (A9), Kinmap_103 (A21), Klodlith_91 (A9), Lilleskat_92 (A9), LoneWolf_95 (A9), Maminiaina_94 (A9), MegTheThird_90 (A9), Minispark_92 (A9), Myxus_95 (A9), Onglai_93 (A9), PackMan_90 (A9), Phaeder_95 (A9), Phonnegut_95 (A9), Pioneer_95 (A9), Priya_93 (A9), Qobbit_93 (A9), Rahalelujah_94 (A9), RyeScarlet_96 (A9), Sachima_91 (A9), Scherzo_93 (A9), SheaKeira_90 (A9), Spouty_93 (A9), Toaka_93 (A9), Tubs_95 (A9), Ugenie5_82 (A9), Vanisoa_90 (A9), WorldCup_93 (A9), Yecey3_97 (A9),

Summary by clusters:

There are 3 clusters represented in this pham: A9, A21, A17,

Info for manual annotations of cluster A9:
•Start number 14 was manually annotated 34 times for cluster A9.

Gene Information:
Gene: 40AC_89 Start: 50824, Stop: 50618, Start Num: 14
Candidate Starts for 40AC_89:
(Start: 14 @50824 has 34 MA's), (16, 50788), (18, 50776), (22, 50725), (25, 50692), (27, 50647), (28, 50641),

Gene: Aliter_88 Start: 47544, Stop: 47314, Start Num: 14
Candidate Starts for Aliter_88:
(Start: 14 @47544 has 34 MA's), (23, 47433), (28, 47343),

Gene: Alma_93 Start: 50375, Stop: 50145, Start Num: 14
Candidate Starts for Alma_93:

(10, 50411), (Start: 14 @50375 has 34 MA's), (23, 50264), (28, 50174),

Gene: Arissanae_90 Start: 50239, Stop: 50009, Start Num: 14
Candidate Starts for Arissanae_90:
(7, 50293), (Start: 14 @50239 has 34 MA's), (19, 50182),

Gene: Ayanochan_93 Start: 50166, Stop: 49936, Start Num: 14
Candidate Starts for Ayanochan_93:
(10, 50202), (Start: 14 @50166 has 34 MA's), (23, 50055), (28, 49965),

Gene: Beemo_95 Start: 50377, Stop: 50147, Start Num: 14
Candidate Starts for Beemo_95:
(Start: 14 @50377 has 34 MA's), (23, 50266), (28, 50176),

Gene: Bellris_92 Start: 49943, Stop: 49713, Start Num: 14
Candidate Starts for Bellris_92:
(8, 49991), (Start: 14 @49943 has 34 MA's), (16, 49901), (28, 49742),

Gene: BogosyJay_94 Start: 50379, Stop: 50149, Start Num: 14
Candidate Starts for BogosyJay_94:
(Start: 14 @50379 has 34 MA's), (20, 50292), (23, 50268), (28, 50178),

Gene: Catalina_97 Start: 50491, Stop: 50261, Start Num: 14
Candidate Starts for Catalina_97:
(Start: 14 @50491 has 34 MA's), (23, 50380), (28, 50290),

Gene: Celestialunch_89 Start: 49579, Stop: 49358, Start Num: 14
Candidate Starts for Celestialunch_89:
(3, 49684), (4, 49675), (Start: 14 @49579 has 34 MA's), (17, 49534),

Gene: Charm_90 Start: 49777, Stop: 49556, Start Num: 14
Candidate Starts for Charm_90:
(11, 49813), (Start: 14 @49777 has 34 MA's), (17, 49732), (19, 49726), (28, 49591),

Gene: CogOmlette_92 Start: 49940, Stop: 49710, Start Num: 14
Candidate Starts for CogOmlette_92:
(8, 49988), (Start: 14 @49940 has 34 MA's), (16, 49898), (28, 49739),

Gene: Conquerage_93 Start: 50151, Stop: 49921, Start Num: 14
Candidate Starts for Conquerage_93:
(10, 50187), (Start: 14 @50151 has 34 MA's), (23, 50040), (28, 49950),

Gene: Darrell_93 Start: 49542, Stop: 49312, Start Num: 14
Candidate Starts for Darrell_93:
(Start: 14 @49542 has 34 MA's), (16, 49500), (19, 49485), (20, 49455), (23, 49431), (28, 49341),

Gene: DreamTeam1_91 Start: 49748, Stop: 49527, Start Num: 14
Candidate Starts for DreamTeam1_91:
(11, 49784), (Start: 14 @49748 has 34 MA's), (17, 49703), (19, 49697), (28, 49562),

Gene: EdogawaKiddo_94 Start: 50453, Stop: 50223, Start Num: 14
Candidate Starts for EdogawaKiddo_94:
(Start: 14 @50453 has 34 MA's), (23, 50342), (28, 50252),

Gene: Eidsmoe_93 Start: 50144, Stop: 49914, Start Num: 14
Candidate Starts for Eidsmoe_93:
(10, 50180), (Start: 14 @50144 has 34 MA's), (23, 50033), (28, 49943),

Gene: Elephantoon_95 Start: 50266, Stop: 50036, Start Num: 14
Candidate Starts for Elephantoon_95:
(5, 50329), (6, 50320), (Start: 14 @50266 has 34 MA's), (16, 50224), (21, 50164), (26, 50074), (27, 50071),

Gene: EmyBug_92 Start: 50146, Stop: 49916, Start Num: 14
Candidate Starts for EmyBug_92:
(10, 50182), (Start: 14 @50146 has 34 MA's), (23, 50035), (28, 49945),

Gene: ExplosioNervosa_93 Start: 50212, Stop: 49982, Start Num: 14
Candidate Starts for ExplosioNervosa_93:
(10, 50248), (Start: 14 @50212 has 34 MA's), (23, 50101), (28, 50011),

Gene: Fayely_93 Start: 50120, Stop: 49890, Start Num: 14
Candidate Starts for Fayely_93:
(10, 50156), (Start: 14 @50120 has 34 MA's), (23, 50009), (28, 49919),

Gene: Hanray_93 Start: 50442, Stop: 50212, Start Num: 14
Candidate Starts for Hanray_93:
(Start: 14 @50442 has 34 MA's), (23, 50331), (28, 50241),

Gene: Holex_94 Start: 50455, Stop: 50225, Start Num: 14
Candidate Starts for Holex_94:
(Start: 14 @50455 has 34 MA's), (23, 50344), (28, 50254),

Gene: HortumSL17_96 Start: 50489, Stop: 50259, Start Num: 14
Candidate Starts for HortumSL17_96:
(Start: 14 @50489 has 34 MA's), (23, 50378), (28, 50288),

Gene: Jiawan_93 Start: 50472, Stop: 50242, Start Num: 14
Candidate Starts for Jiawan_93:
(Start: 14 @50472 has 34 MA's), (23, 50361), (28, 50271),

Gene: Kinmap_103 Start: 51048, Stop: 50851, Start Num: 14
Candidate Starts for Kinmap_103:
(2, 51225), (9, 51096), (12, 51075), (13, 51066), (Start: 14 @51048 has 34 MA's), (18, 51000), (24, 50925), (25, 50916), (27, 50868), (28, 50862),

Gene: Klodlith_91 Start: 49850, Stop: 49629, Start Num: 14
Candidate Starts for Klodlith_91:
(11, 49886), (Start: 14 @49850 has 34 MA's), (17, 49805), (19, 49799), (28, 49664),

Gene: Lilleskat_92 Start: 50443, Stop: 50213, Start Num: 14
Candidate Starts for Lilleskat_92:
(Start: 14 @50443 has 34 MA's), (23, 50332), (28, 50242),

Gene: LoneWolf_95 Start: 50480, Stop: 50250, Start Num: 14
Candidate Starts for LoneWolf_95:

(1, 50717), (Start: 14 @50480 has 34 MA's), (20, 50393), (23, 50369), (28, 50279),

Gene: Maminiaina_94 Start: 50361, Stop: 50131, Start Num: 14
Candidate Starts for Maminiaina_94:
(Start: 14 @50361 has 34 MA's), (20, 50274), (23, 50250), (28, 50160),

Gene: MegTheThird_90 Start: 49797, Stop: 49576, Start Num: 14
Candidate Starts for MegTheThird_90:
(3, 49902), (4, 49893), (Start: 14 @49797 has 34 MA's), (17, 49752),

Gene: Minispark_92 Start: 49937, Stop: 49707, Start Num: 14
Candidate Starts for Minispark_92:
(8, 49985), (Start: 14 @49937 has 34 MA's), (16, 49895), (28, 49736),

Gene: Myxus_95 Start: 50489, Stop: 50259, Start Num: 14
Candidate Starts for Myxus_95:
(Start: 14 @50489 has 34 MA's), (23, 50378), (28, 50288),

Gene: Onglai_93 Start: 48644, Stop: 48414, Start Num: 14
Candidate Starts for Onglai_93:
(Start: 14 @48644 has 34 MA's), (23, 48533), (28, 48443),

Gene: PackMan_90 Start: 48403, Stop: 48173, Start Num: 14
Candidate Starts for PackMan_90:
(Start: 14 @48403 has 34 MA's), (23, 48292), (28, 48202),

Gene: Phaeder_95 Start: 50364, Stop: 50134, Start Num: 14
Candidate Starts for Phaeder_95:
(Start: 14 @50364 has 34 MA's), (23, 50253), (28, 50163),

Gene: Phonnegut_95 Start: 50376, Stop: 50146, Start Num: 14
Candidate Starts for Phonnegut_95:
(Start: 14 @50376 has 34 MA's), (23, 50265), (28, 50175),

Gene: Pioneer_95 Start: 50376, Stop: 50146, Start Num: 14
Candidate Starts for Pioneer_95:
(Start: 14 @50376 has 34 MA's), (23, 50265), (28, 50175),

Gene: Priya_93 Start: 50147, Stop: 49917, Start Num: 14
Candidate Starts for Priya_93:
(10, 50183), (Start: 14 @50147 has 34 MA's), (23, 50036), (28, 49946),

Gene: Qobbit_93 Start: 50109, Stop: 49879, Start Num: 14
Candidate Starts for Qobbit_93:
(10, 50145), (Start: 14 @50109 has 34 MA's), (23, 49998), (28, 49908),

Gene: Rahalelujah_94 Start: 49952, Stop: 49722, Start Num: 14
Candidate Starts for Rahalelujah_94:
(8, 50000), (Start: 14 @49952 has 34 MA's), (16, 49910), (28, 49751),

Gene: RyeScarlet_96 Start: 50362, Stop: 50132, Start Num: 14
Candidate Starts for RyeScarlet_96:
(Start: 14 @50362 has 34 MA's), (23, 50251), (28, 50161),

Gene: Sachima_91 Start: 50390, Stop: 50160, Start Num: 14
Candidate Starts for Sachima_91:
(Start: 14 @50390 has 34 MA's), (23, 50279), (28, 50189),

Gene: Scherzo_93 Start: 50407, Stop: 50177, Start Num: 14
Candidate Starts for Scherzo_93:
(Start: 14 @50407 has 34 MA's), (23, 50296), (28, 50206),

Gene: SheaKeira_90 Start: 49660, Stop: 49439, Start Num: 14
Candidate Starts for SheaKeira_90:
(11, 49696), (Start: 14 @49660 has 34 MA's), (17, 49615), (19, 49609), (28, 49474),

Gene: Spouty_93 Start: 50146, Stop: 49916, Start Num: 14
Candidate Starts for Spouty_93:
(10, 50182), (Start: 14 @50146 has 34 MA's), (23, 50035), (28, 49945),

Gene: Toaka_93 Start: 50289, Stop: 50059, Start Num: 14
Candidate Starts for Toaka_93:
(Start: 14 @50289 has 34 MA's), (16, 50247), (19, 50232), (26, 50097),

Gene: Tubs_95 Start: 50364, Stop: 50134, Start Num: 14
Candidate Starts for Tubs_95:
(Start: 14 @50364 has 34 MA's), (23, 50253), (28, 50163),

Gene: Ugenie5_82 Start: 47851, Stop: 47621, Start Num: 14
Candidate Starts for Ugenie5_82:
(Start: 14 @47851 has 34 MA's), (23, 47740), (28, 47650),

Gene: Vanisoa_90 Start: 50582, Stop: 50352, Start Num: 14
Candidate Starts for Vanisoa_90:
(8, 50630), (Start: 14 @50582 has 34 MA's), (16, 50540), (28, 50381),

Gene: WorldCup_93 Start: 50038, Stop: 49808, Start Num: 14
Candidate Starts for WorldCup_93:
(Start: 14 @50038 has 34 MA's), (16, 49996), (28, 49837),

Gene: Yecey3_97 Start: 50292, Stop: 50062, Start Num: 14
Candidate Starts for Yecey3_97:
(Start: 14 @50292 has 34 MA's), (15, 50256), (28, 50091),