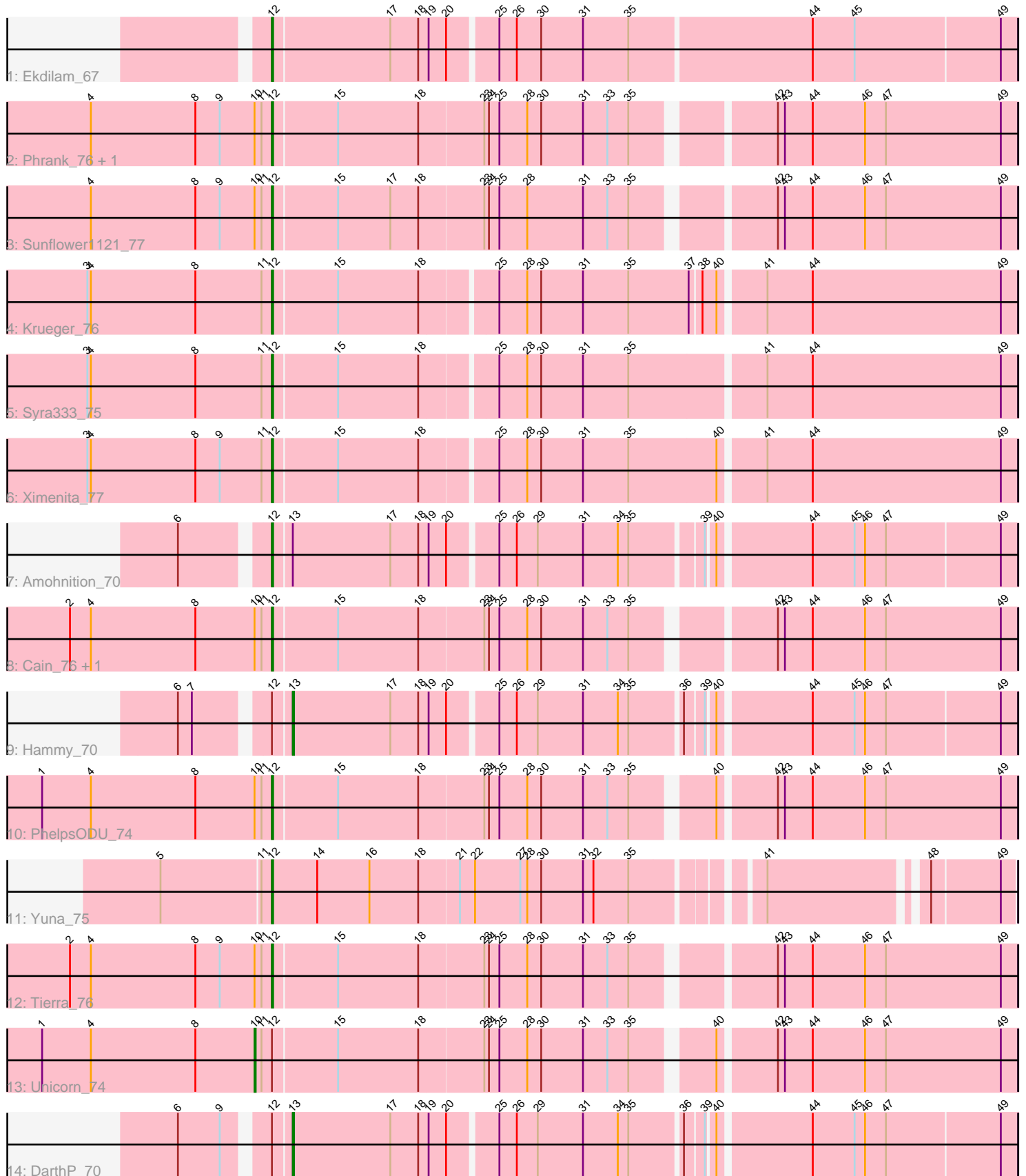


Pham 86940



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 86940 Report

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

Pham number 86940 has 16 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Ekdilam_67
- Track 2 : Phrank_76, Shadow1_76
- Track 3 : Sunflower1121_77
- Track 4 : Krueger_76
- Track 5 : Syra333_75
- Track 6 : Ximenita_77
- Track 7 : Amohnition_70
- Track 8 : Cain_76, Bryler_76
- Track 9 : Hammy_70
- Track 10 : PhelpsODU_74
- Track 11 : Yuna_75
- Track 12 : Tierra_76
- Track 13 : Unicorn_74
- Track 14 : DarthP_70

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

The start number called the most often in the published annotations is 12, it was called in 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amohnition_70, Bryler_76, Cain_76, Ekdilam_67, Krueger_76, PhelpsODU_74, Phrank_76, Shadow1_76, Sunflower1121_77, Syra333_75, Tierra_76, Ximenita_77, Yuna_75,

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

- DarthP_70, Hammy_70, Unicorn_74,

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

-

Summary by start number:

Start 10:

- Found in 8 of 16 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Unicorn_74 (K6),

Start 12:

- Found in 16 of 16 (100.0%) of genes in pham
- Manual Annotations of this start: 13 of 16
- Called 81.2% of time when present
- Phage (with cluster) where this start called: Amohnition_70 (K6), Bryler_76 (K6), Cain_76 (K6), Ekdilam_67 (K6), Krueger_76 (K6), PhelpsODU_74 (K6), Phrank_76 (K6), Shadow1_76 (K6), Sunflower1121_77 (K6), Syra333_75 (K6), Tierra_76 (K6), Ximenita_77 (K6), Yuna_75 (K6),

Start 13:

- Found in 3 of 16 (18.8%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: DARTH_P_70 (K6), Hammy_70 (K6),

Summary by clusters:

There is one cluster represented in this pham: K6

Info for manual annotations of cluster K6:

- Start number 10 was manually annotated 1 time for cluster K6.
- Start number 12 was manually annotated 13 times for cluster K6.
- Start number 13 was manually annotated 2 times for cluster K6.

Gene Information:

Gene: Amohnition_70 Start: 48438, Stop: 49046, Start Num: 12

Candidate Starts for Amohnition_70:

(6, 48372), (Start: 12 @48438 has 13 MA's), (Start: 13 @48453 has 2 MA's), (17, 48537), (18, 48561), (19, 48570), (20, 48585), (25, 48624), (26, 48639), (29, 48657), (31, 48696), (34, 48726), (35, 48735), (39, 48792), (40, 48798), (44, 48873), (45, 48909), (46, 48918), (47, 48936), (49, 49032),

Gene: Bryler_76 Start: 47993, Stop: 48604, Start Num: 12

Candidate Starts for Bryler_76:

(2, 47819), (4, 47837), (8, 47927), (Start: 10 @47978 has 1 MA's), (11, 47984), (Start: 12 @47993 has 13 MA's), (15, 48047), (18, 48116), (23, 48170), (24, 48173), (25, 48182), (28, 48206), (30, 48218), (31, 48254), (33, 48275), (35, 48293), (42, 48398), (43, 48404), (44, 48428), (46, 48473), (47, 48491), (49, 48590),

Gene: Cain_76 Start: 47981, Stop: 48592, Start Num: 12

Candidate Starts for Cain_76:

(2, 47807), (4, 47825), (8, 47915), (Start: 10 @47966 has 1 MA's), (11, 47972), (Start: 12 @47981 has 13 MA's), (15, 48035), (18, 48104), (23, 48158), (24, 48161), (25, 48170), (28, 48194), (30, 48206), (31, 48242), (33, 48263), (35, 48281), (42, 48386), (43, 48392), (44, 48416), (46, 48461), (47, 48479), (49, 48578),

Gene: DarthP_70 Start: 48310, Stop: 48903, Start Num: 13

Candidate Starts for DarthP_70:

(6, 48229), (9, 48265), (Start: 12 @48295 has 13 MA's), (Start: 13 @48310 has 2 MA's), (17, 48394), (18, 48418), (19, 48427), (20, 48442), (25, 48481), (26, 48496), (29, 48514), (31, 48553), (34, 48583), (35, 48592), (36, 48634), (39, 48649), (40, 48655), (44, 48730), (45, 48766), (46, 48775), (47, 48793), (49, 48889),

Gene: Ekdilam_67 Start: 48488, Stop: 49111, Start Num: 12

Candidate Starts for Ekdilam_67:

(Start: 12 @48488 has 13 MA's), (17, 48587), (18, 48611), (19, 48620), (20, 48635), (25, 48674), (26, 48689), (30, 48710), (31, 48746), (35, 48785), (44, 48938), (45, 48974), (49, 49097),

Gene: Hammy_70 Start: 48295, Stop: 48888, Start Num: 13

Candidate Starts for Hammy_70:

(6, 48214), (7, 48226), (Start: 12 @48280 has 13 MA's), (Start: 13 @48295 has 2 MA's), (17, 48379), (18, 48403), (19, 48412), (20, 48427), (25, 48466), (26, 48481), (29, 48499), (31, 48538), (34, 48568), (35, 48577), (36, 48619), (39, 48634), (40, 48640), (44, 48715), (45, 48751), (46, 48760), (47, 48778), (49, 48874),

Gene: Krueger_76 Start: 48119, Stop: 48736, Start Num: 12

Candidate Starts for Krueger_76:

(3, 47960), (4, 47963), (8, 48053), (11, 48110), (Start: 12 @48119 has 13 MA's), (15, 48173), (18, 48242), (25, 48302), (28, 48326), (30, 48338), (31, 48374), (35, 48413), (37, 48464), (38, 48473), (40, 48485), (41, 48521), (44, 48560), (49, 48722),

Gene: PhelpsODU_74 Start: 47905, Stop: 48516, Start Num: 12

Candidate Starts for PhelpsODU_74:

(1, 47707), (4, 47749), (8, 47839), (Start: 10 @47890 has 1 MA's), (11, 47896), (Start: 12 @47905 has 13 MA's), (15, 47959), (18, 48028), (23, 48082), (24, 48085), (25, 48094), (28, 48118), (30, 48130), (31, 48166), (33, 48187), (35, 48205), (40, 48265), (42, 48310), (43, 48316), (44, 48340), (46, 48385), (47, 48403), (49, 48502),

Gene: Phrank_76 Start: 47968, Stop: 48579, Start Num: 12

Candidate Starts for Phrank_76:

(4, 47812), (8, 47902), (9, 47923), (Start: 10 @47953 has 1 MA's), (11, 47959), (Start: 12 @47968 has 13 MA's), (15, 48022), (18, 48091), (23, 48145), (24, 48148), (25, 48157), (28, 48181), (30, 48193), (31, 48229), (33, 48250), (35, 48268), (42, 48373), (43, 48379), (44, 48403), (46, 48448), (47, 48466), (49, 48565),

Gene: Shadow1_76 Start: 48265, Stop: 48876, Start Num: 12

Candidate Starts for Shadow1_76:

(4, 48109), (8, 48199), (9, 48220), (Start: 10 @48250 has 1 MA's), (11, 48256), (Start: 12 @48265 has 13 MA's), (15, 48319), (18, 48388), (23, 48442), (24, 48445), (25, 48454), (28, 48478), (30, 48490), (31, 48526), (33, 48547), (35, 48565), (42, 48670), (43, 48676), (44, 48700), (46, 48745), (47, 48763), (49, 48862),

Gene: Sunflower1121_77 Start: 48411, Stop: 49022, Start Num: 12

Candidate Starts for Sunflower1121_77:

(4, 48255), (8, 48345), (9, 48366), (Start: 10 @48396 has 1 MA's), (11, 48402), (Start: 12 @48411 has 13 MA's), (15, 48465), (17, 48510), (18, 48534), (23, 48588), (24, 48591), (25, 48600), (28, 48624), (31, 48672), (33, 48693), (35, 48711), (42, 48816), (43, 48822), (44, 48846), (46, 48891), (47, 48909), (49, 49008),

Gene: Syra333_75 Start: 48130, Stop: 48750, Start Num: 12

Candidate Starts for Syra333_75:

(3, 47971), (4, 47974), (8, 48064), (11, 48121), (Start: 12 @48130 has 13 MA's), (15, 48184), (18, 48253), (25, 48313), (28, 48337), (30, 48349), (31, 48385), (35, 48424), (41, 48535), (44, 48574), (49, 48736),

Gene: Tierra_76 Start: 48779, Stop: 49390, Start Num: 12

Candidate Starts for Tierra_76:

(2, 48605), (4, 48623), (8, 48713), (9, 48734), (Start: 10 @48764 has 1 MA's), (11, 48770), (Start: 12 @48779 has 13 MA's), (15, 48833), (18, 48902), (23, 48956), (24, 48959), (25, 48968), (28, 48992), (30, 49004), (31, 49040), (33, 49061), (35, 49079), (42, 49184), (43, 49190), (44, 49214), (46, 49259), (47, 49277), (49, 49376),

Gene: Unicorn_74 Start: 47890, Stop: 48516, Start Num: 10

Candidate Starts for Unicorn_74:

(1, 47707), (4, 47749), (8, 47839), (Start: 10 @47890 has 1 MA's), (11, 47896), (Start: 12 @47905 has 13 MA's), (15, 47959), (18, 48028), (23, 48082), (24, 48085), (25, 48094), (28, 48118), (30, 48130), (31, 48166), (33, 48187), (35, 48205), (40, 48265), (42, 48310), (43, 48316), (44, 48340), (46, 48385), (47, 48403), (49, 48502),

Gene: Ximenita_77 Start: 48454, Stop: 49074, Start Num: 12

Candidate Starts for Ximenita_77:

(3, 48295), (4, 48298), (8, 48388), (9, 48409), (11, 48445), (Start: 12 @48454 has 13 MA's), (15, 48508), (18, 48577), (25, 48637), (28, 48661), (30, 48673), (31, 48709), (35, 48748), (40, 48823), (41, 48859), (44, 48898), (49, 49060),

Gene: Yuna_75 Start: 49568, Stop: 50155, Start Num: 12

Candidate Starts for Yuna_75:

(5, 49475), (11, 49559), (Start: 12 @49568 has 13 MA's), (14, 49607), (16, 49652), (18, 49694), (21, 49727), (22, 49739), (27, 49778), (28, 49784), (30, 49796), (31, 49832), (32, 49841), (35, 49871), (41, 49964), (48, 50087), (49, 50144),