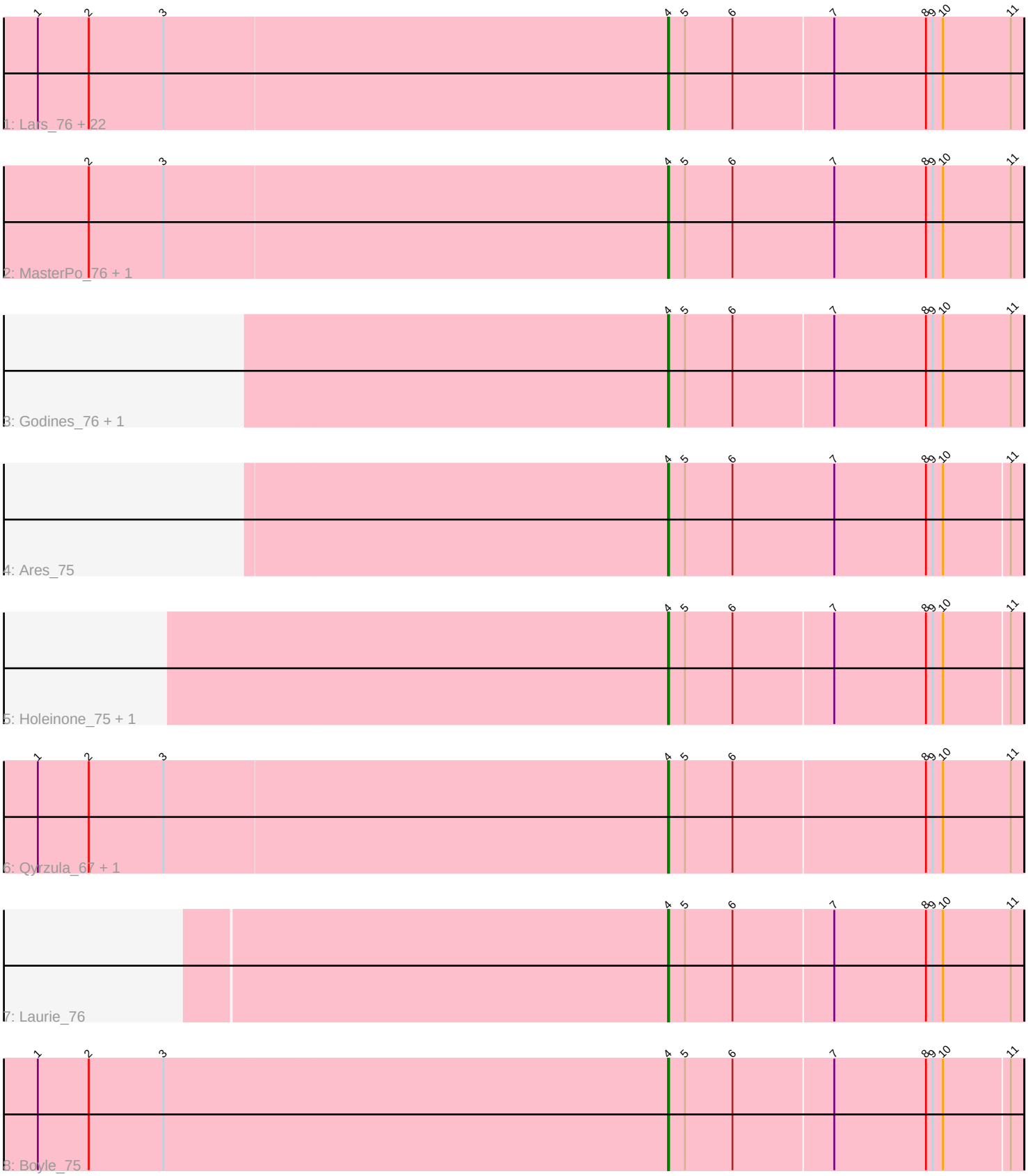
Pham 2569


1: Lars_76 + 22
2: MasterPo_76 + 1
3: Godines_76 + 1
4: Ares_75
5: Holeinone_75 + 1
6: Qyrzula_67 + 1
7: Laurie_76
8: Boyle_75

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 2569 Report

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

Pham number 2569 has 34 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Lars_76, Kheth_75, Rhinoforte_75, Bananafish_76, Faze9_74, Lephleur_75, Tres_75, Rosebush_73, Phantasmagoria_74, Opia_76, FrenchFry_76, Tinciduntsolum_76, Glass_77, Blocker23_75, Hedgerow_75, Brownie5_75, Eaglehorse_75, Kaleb_76, Coffee_75, West99_75, Allegro_75, LizLemon_75, Sabella_75
• Track 2 : MasterPo_76, ItsyBitsy1_73
• Track 3 : Godines_76, Calamitous_76
• Track 4 : Ares_75
• Track 5 : Holeinone_75, TA17A_75
• Track 6 : Qyrzula_67, Arbiter_72
• Track 7 : Laurie_76
• Track 8 : Boyle_75

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

The start number called the most often in the published annotations is 4, it was called in 32 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Allegro_75, Arbiter_72, Ares_75, Bananafish_76, Blocker23_75, Boyle_75, Brownie5_75, Calamitous_76, Coffee_75, Eaglehorse_75, Faze9_74, FrenchFry_76, Glass_77, Godines_76, Hedgerow_75, Holeinone_75, ItsyBitsy1_73, Kaleb_76, Kheth_75, Lars_76, Laurie_76, Lephleur_75, LizLemon_75, MasterPo_76, Opia_76, Phantasmagoria_74, Qyrzula_67, Rhinoforte_75, Rosebush_73, Sabella_75, TA17A_75, Tinciduntsolum_76, Tres_75, West99_75,

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 4:
• Found in 34 of 34 (100.0%) of genes in pham
• Manual Annotations of this start: 32 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Allegro_75 (B2), Arbiter_72 (B2), Ares_75 (B2), Bananafish_76 (B2), Blocker23_75 (B2), Boyle_75 (B2), Brownie5_75 (B2), Calamitous_76 (B2), Coffee_75 (B2), Eaglehorse_75 (B2), Faze9_74 (B2), FrenchFry_76 (B2), Glass_77 (B2), Godines_76 (B2), Hedgerow_75 (B2), Holeinone_75 (B2), ItsyBitsy1_73 (B2), Kaleb_76 (B2), Kheth_75 (B2), Lars_76 (B2), Laurie_76 (B2), Lephleur_75 (B2), LizLemon_75 (B2), MasterPo_76 (B2), Opia_76 (B2), Phantasmagoria_74 (B2), Qyrzula_67 (B2), Rhinoforte_75 (B2), Rosebush_73 (B2), Sabella_75 (B2), TA17A_75 (B2), Tinciduntsolum_76 (B2), Tres_75 (B2), West99_75 (B2),

Summary by clusters:

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:
•Start number 4 was manually annotated 32 times for cluster B2.

Gene Information:

Gene: Allegro_75 Start: 60417, Stop: 60106, Start Num: 4
Candidate Starts for Allegro_75:
(1, 60969), (2, 60924), (3, 60858), (Start: 4 @60417 has 32 MA's), (5, 60402), (6, 60360), (7, 60273), (8, 60192), (9, 60186), (10, 60177), (11, 60117),

Gene: Arbiter_72 Start: 60464, Stop: 60153, Start Num: 4
Candidate Starts for Arbiter_72:
(1, 61016), (2, 60971), (3, 60905), (Start: 4 @60464 has 32 MA's), (5, 60449), (6, 60407), (8, 60239), (9, 60233), (10, 60224), (11, 60164),

Gene: Ares_75 Start: 60423, Stop: 60112, Start Num: 4
Candidate Starts for Ares_75:
(Start: 4 @60423 has 32 MA's), (5, 60408), (6, 60366), (7, 60276), (8, 60195), (9, 60189), (10, 60180), (11, 60123),

Gene: Bananafish_76 Start: 60353, Stop: 60042, Start Num: 4
Candidate Starts for Bananafish_76:
(1, 60905), (2, 60860), (3, 60794), (Start: 4 @60353 has 32 MA's), (5, 60338), (6, 60296), (7, 60209), (8, 60128), (9, 60122), (10, 60113), (11, 60053),

Gene: Blocker23_75 Start: 60421, Stop: 60113, Start Num: 4
Candidate Starts for Blocker23_75:
(1, 60973), (2, 60928), (3, 60862), (Start: 4 @60421 has 32 MA's), (5, 60406), (6, 60364), (7, 60277), (8, 60196), (9, 60190), (10, 60181), (11, 60124),

Gene: Boyle_75 Start: 60465, Stop: 60157, Start Num: 4
Candidate Starts for Boyle_75:

(1, 61017), (2, 60972), (3, 60906), (Start: 4 @60465 has 32 MA's), (5, 60450), (6, 60408), (7, 60321), (8, 60240), (9, 60234), (10, 60225), (11, 60168),

Gene: Brownie5_75 Start: 60466, Stop: 60158, Start Num: 4
Candidate Starts for Brownie5_75:
(1, 61018), (2, 60973), (3, 60907), (Start: 4 @60466 has 32 MA's), (5, 60451), (6, 60409), (7, 60322), (8, 60241), (9, 60235), (10, 60226), (11, 60169),

Gene: Calamitous_76 Start: 60346, Stop: 60035, Start Num: 4
Candidate Starts for Calamitous_76:
(Start: 4 @60346 has 32 MA's), (5, 60331), (6, 60289), (7, 60202), (8, 60121), (9, 60115), (10, 60106), (11, 60046),

Gene: Coffee_75 Start: 60459, Stop: 60151, Start Num: 4
Candidate Starts for Coffee_75:
(1, 61011), (2, 60966), (3, 60900), (Start: 4 @60459 has 32 MA's), (5, 60444), (6, 60402), (7, 60315), (8, 60234), (9, 60228), (10, 60219), (11, 60162),

Gene: Eaglehorse_75 Start: 60342, Stop: 60031, Start Num: 4
Candidate Starts for Eaglehorse_75:
(1, 60894), (2, 60849), (3, 60783), (Start: 4 @60342 has 32 MA's), (5, 60327), (6, 60285), (7, 60198), (8, 60117), (9, 60111), (10, 60102), (11, 60042),

Gene: Faze9_74 Start: 60480, Stop: 60169, Start Num: 4
Candidate Starts for Faze9_74:
(1, 61032), (2, 60987), (3, 60921), (Start: 4 @60480 has 32 MA's), (5, 60465), (6, 60423), (7, 60336), (8, 60255), (9, 60249), (10, 60240), (11, 60180),

Gene: FrenchFry_76 Start: 60473, Stop: 60162, Start Num: 4
Candidate Starts for FrenchFry_76:
(1, 61025), (2, 60980), (3, 60914), (Start: 4 @60473 has 32 MA's), (5, 60458), (6, 60416), (7, 60329), (8, 60248), (9, 60242), (10, 60233), (11, 60173),

Gene: Glass_77 Start: 60474, Stop: 60163, Start Num: 4
Candidate Starts for Glass_77:
(1, 61026), (2, 60981), (3, 60915), (Start: 4 @60474 has 32 MA's), (5, 60459), (6, 60417), (7, 60330), (8, 60249), (9, 60243), (10, 60234), (11, 60174),

Gene: Godines_76 Start: 60727, Stop: 60416, Start Num: 4
Candidate Starts for Godines_76:
(Start: 4 @60727 has 32 MA's), (5, 60712), (6, 60670), (7, 60583), (8, 60502), (9, 60496), (10, 60487), (11, 60427),

Gene: Hedgerow_75 Start: 60431, Stop: 60123, Start Num: 4
Candidate Starts for Hedgerow_75:
(1, 60983), (2, 60938), (3, 60872), (Start: 4 @60431 has 32 MA's), (5, 60416), (6, 60374), (7, 60287), (8, 60206), (9, 60200), (10, 60191), (11, 60134),

Gene: Holeinone_75 Start: 60326, Stop: 60018, Start Num: 4
Candidate Starts for Holeinone_75:
(Start: 4 @60326 has 32 MA's), (5, 60311), (6, 60269), (7, 60182), (8, 60101), (9, 60095), (10, 60086), (11, 60029),

Gene: ItsyBitsy1_73 Start: 60556, Stop: 60248, Start Num: 4
Candidate Starts for ItsyBitsy1_73:
(2, 61063), (3, 60997), (Start: 4 @60556 has 32 MA's), (5, 60541), (6, 60499), (7, 60412), (8, 60331), (9, 60325), (10, 60316), (11, 60259),

Gene: Kaleb_76 Start: 60477, Stop: 60169, Start Num: 4
Candidate Starts for Kaleb_76:
(1, 61029), (2, 60984), (3, 60918), (Start: 4 @60477 has 32 MA's), (5, 60462), (6, 60420), (7, 60333), (8, 60252), (9, 60246), (10, 60237), (11, 60180),

Gene: Kheth_75 Start: 60388, Stop: 60080, Start Num: 4
Candidate Starts for Kheth_75:
(1, 60940), (2, 60895), (3, 60829), (Start: 4 @60388 has 32 MA's), (5, 60373), (6, 60331), (7, 60244), (8, 60163), (9, 60157), (10, 60148), (11, 60091),

Gene: Lars_76 Start: 60452, Stop: 60141, Start Num: 4
Candidate Starts for Lars_76:
(1, 61004), (2, 60959), (3, 60893), (Start: 4 @60452 has 32 MA's), (5, 60437), (6, 60395), (7, 60308), (8, 60227), (9, 60221), (10, 60212), (11, 60152),

Gene: Laurie_76 Start: 60130, Stop: 59819, Start Num: 4
Candidate Starts for Laurie_76:
(Start: 4 @60130 has 32 MA's), (5, 60115), (6, 60073), (7, 59986), (8, 59905), (9, 59899), (10, 59890), (11, 59830),

Gene: Lephleur_75 Start: 60311, Stop: 59997, Start Num: 4
Candidate Starts for Lephleur_75:
(1, 60863), (2, 60818), (3, 60752), (Start: 4 @60311 has 32 MA's), (5, 60296), (6, 60254), (7, 60164), (8, 60083), (9, 60077), (10, 60068), (11, 60008),

Gene: LizLemon_75 Start: 60479, Stop: 60168, Start Num: 4
Candidate Starts for LizLemon_75:
(1, 61031), (2, 60986), (3, 60920), (Start: 4 @60479 has 32 MA's), (5, 60464), (6, 60422), (7, 60335), (8, 60254), (9, 60248), (10, 60239), (11, 60179),

Gene: MasterPo_76 Start: 60349, Stop: 60035, Start Num: 4
Candidate Starts for MasterPo_76:
(2, 60856), (3, 60790), (Start: 4 @60349 has 32 MA's), (5, 60334), (6, 60292), (7, 60202), (8, 60121), (9, 60115), (10, 60106), (11, 60046),

Gene: Opia_76 Start: 60372, Stop: 60061, Start Num: 4
Candidate Starts for Opia_76:
(1, 60924), (2, 60879), (3, 60813), (Start: 4 @60372 has 32 MA's), (5, 60357), (6, 60315), (7, 60228), (8, 60147), (9, 60141), (10, 60132), (11, 60072),

Gene: Phantasmagoria_74 Start: 60355, Stop: 60044, Start Num: 4
Candidate Starts for Phantasmagoria_74:
(1, 60907), (2, 60862), (3, 60796), (Start: 4 @60355 has 32 MA's), (5, 60340), (6, 60298), (7, 60211), (8, 60130), (9, 60124), (10, 60115), (11, 60055),

Gene: Qyrzula_67 Start: 60494, Stop: 60183, Start Num: 4
Candidate Starts for Qyrzula_67:

(1, 61046), (2, 61001), (3, 60935), (Start: 4 @60494 has 32 MA's), (5, 60479), (6, 60437), (8, 60269), (9, 60263), (10, 60254), (11, 60194),

Gene: Rhinoforte_75 Start: 60390, Stop: 60082, Start Num: 4
Candidate Starts for Rhinoforte_75:
(1, 60942), (2, 60897), (3, 60831), (Start: 4 @60390 has 32 MA's), (5, 60375), (6, 60333), (7, 60246), (8, 60165), (9, 60159), (10, 60150), (11, 60093),

Gene: Rosebush_73 Start: 60463, Stop: 60155, Start Num: 4
Candidate Starts for Rosebush_73:
(1, 61015), (2, 60970), (3, 60904), (Start: 4 @60463 has 32 MA's), (5, 60448), (6, 60406), (7, 60319), (8, 60238), (9, 60232), (10, 60223), (11, 60166),

Gene: Sabella_75 Start: 60301, Stop: 59990, Start Num: 4
Candidate Starts for Sabella_75:
(1, 60853), (2, 60808), (3, 60742), (Start: 4 @60301 has 32 MA's), (5, 60286), (6, 60244), (7, 60157), (8, 60076), (9, 60070), (10, 60061), (11, 60001),

Gene: TA17A_75 Start: 60306, Stop: 59995, Start Num: 4
Candidate Starts for TA17A_75:
(Start: 4 @60306 has 32 MA's), (5, 60291), (6, 60249), (7, 60159), (8, 60078), (9, 60072), (10, 60063), (11, 60006),

Gene: Tinciduntsolum_76 Start: 60465, Stop: 60157, Start Num: 4
Candidate Starts for Tinciduntsolum_76:
(1, 61017), (2, 60972), (3, 60906), (Start: 4 @60465 has 32 MA's), (5, 60450), (6, 60408), (7, 60321), (8, 60240), (9, 60234), (10, 60225), (11, 60168),

Gene: Tres_75 Start: 60322, Stop: 60011, Start Num: 4
Candidate Starts for Tres_75:
(1, 60874), (2, 60829), (3, 60763), (Start: 4 @60322 has 32 MA's), (5, 60307), (6, 60265), (7, 60178), (8, 60097), (9, 60091), (10, 60082), (11, 60022),

Gene: West99_75 Start: 60487, Stop: 60176, Start Num: 4
Candidate Starts for West99_75:
(1, 61039), (2, 60994), (3, 60928), (Start: 4 @60487 has 32 MA's), (5, 60472), (6, 60430), (7, 60343), (8, 60262), (9, 60256), (10, 60247), (11, 60187),