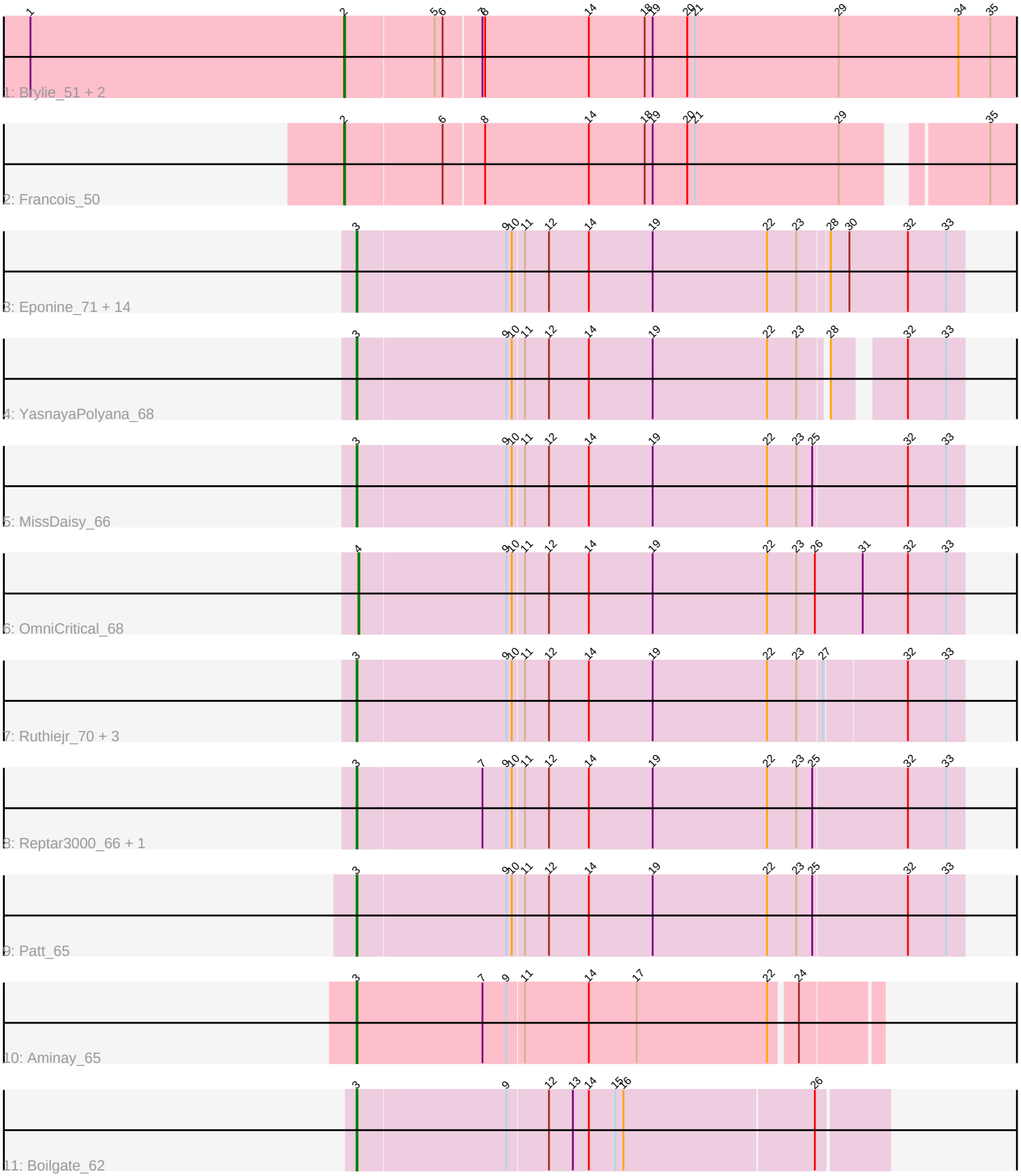
Pham 284046


1: Brylie_51 + 2
2: Francois_50
3: Eponine_71 + 14
4: YasnayaPolyana_68
5: MissDaisy_66
6: OmniCritical_68
7: Ruthiejr_70 + 3
8: Reptar3000_66 + 1
9: Patt_65
10: Aminay_65
11: Boilgate_62

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 284046 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284046 has 31 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Brylie_51, Parada_51, Mulch_51
• Track 2 : Francois_50
• Track 3 : Eponine_71, Qhanda_71, Kraw_69, Malthus_70, SamScheppers_67, Cheetobro_69, Chancellor_69, Juliette_71, Taquito_68, Lebo14_68, Slarp_69, Fionnbharth_69, Mitti_69, DanSyl44_72, Wintermute_69
• Track 4 : YasnayaPolyana_68
• Track 5 : MissDaisy_66
• Track 6 : OmniCritical_68
• Track 7 : Ruthiejr_70, Y10_66, Y2_66, JF1_69
• Track 8 : Reptar3000_66, Bobquesha_70
• Track 9 : Patt_65
• Track 10 : Aminay_65
• Track 11 : Boilgate_62

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

The start number called the most often in the published annotations is 3, it was called in 23 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aminay_65, Bobquesha_70, Boilgate_62, Chancellor_69, Cheetobro_69, DanSyl44_72, Eponine_71, Fionnbharth_69, JF1_69, Juliette_71, Kraw_69, Lebo14_68, Malthus_70, MissDaisy_66, Mitti_69, Patt_65, Qhanda_71, Reptar3000_66, Ruthiejr_70, SamScheppers_67, Slarp_69, Taquito_68, Wintermute_69, Y10_66, Y2_66, YasnayaPolyana_68,

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

Genes that do not have the "Most Annotated" start:
• Brylie_51, Francois_50, Mulch_51, OmniCritical_68, Parada_51,

Summary by start number:

Start 2:
• Found in 4 of 31 (12.9%) of genes in pham
• Manual Annotations of this start: 4 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brylie_51 (DI), Francois_50 (DI), Mulch_51 (DI), Parada_51 (DI),

Start 3:
• Found in 26 of 31 (83.9%) of genes in pham
• Manual Annotations of this start: 23 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_65 (K7), Bobquesha_70 (K4), Boilgate_62 (K8), Chancellor_69 (K4), Cheetobro_69 (K4), DanSyl44_72 (K4), Eponine_71 (K4), Fionnbharth_69 (K4), JF1_69 (K4), Juliette_71 (K4), Kraw_69 (K4), Lebo14_68 (K4), Malthus_70 (K4), MissDaisy_66 (K4), Mitti_69 (K4), Patt_65 (K4), Qhanda_71 (K4), Reptar3000_66 (K4), Ruthiejr_70 (K4), SamScheppers_67 (K4), Slarp_69 (K4), Taquito_68 (K4), Wintermute_69 (K4), Y10_66 (K4), Y2_66 (K4), YasnayaPolyana_68 (K4),

Start 4:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OmniCritical_68 (K4),

Summary by clusters:

There are 4 clusters represented in this pham: K8, DI, K7, K4,

Info for manual annotations of cluster DI:
•Start number 2 was manually annotated 4 times for cluster DI.

Info for manual annotations of cluster K4:
•Start number 3 was manually annotated 21 times for cluster K4.
•Start number 4 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K7:
•Start number 3 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 3 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: Aminay_65 Start: 42473, Stop: 43045, Start Num: 3
Candidate Starts for Aminay_65:
(Start: 3 @42473 has 23 MA's), (7, 42614), (9, 42641), (11, 42659), (14, 42731), (17, 42785), (22, 42932), (24, 42959),

Gene: Bobquesha_70 Start: 41491, Stop: 42162, Start Num: 3
Candidate Starts for Bobquesha_70:

(Start: 3 @41491 has 23 MA's), (7, 41626), (9, 41653), (10, 41659), (11, 41671), (12, 41698), (14, 41743), (19, 41815), (22, 41944), (23, 41977), (25, 41995), (32, 42100), (33, 42142),

Gene: Boilgate_62 Start: 44590, Stop: 45171, Start Num: 3
Candidate Starts for Boilgate_62:
(Start: 3 @44590 has 23 MA's), (9, 44755), (12, 44800), (13, 44827), (14, 44845), (15, 44875), (16, 44884), (26, 45094),

Gene: Brylie_51 Start: 36552, Stop: 37343, Start Num: 2
Candidate Starts for Brylie_51:
(1, 36198), (Start: 2 @36552 has 4 MA's), (5, 36651), (6, 36660), (7, 36699), (8, 36702), (14, 36819), (18, 36882), (19, 36891), (20, 36930), (21, 36939), (29, 37101), (34, 37236), (35, 37272),

Gene: Chancellor_69 Start: 42601, Stop: 43269, Start Num: 3
Candidate Starts for Chancellor_69:
(Start: 3 @42601 has 23 MA's), (9, 42763), (10, 42769), (11, 42781), (12, 42808), (14, 42853), (19, 42925), (22, 43054), (23, 43087), (28, 43120), (30, 43141), (32, 43207), (33, 43249),

Gene: Cheetobro_69 Start: 42598, Stop: 43266, Start Num: 3
Candidate Starts for Cheetobro_69:
(Start: 3 @42598 has 23 MA's), (9, 42760), (10, 42766), (11, 42778), (12, 42805), (14, 42850), (19, 42922), (22, 43051), (23, 43084), (28, 43117), (30, 43138), (32, 43204), (33, 43246),

Gene: DanSyl44_72 Start: 43792, Stop: 44460, Start Num: 3
Candidate Starts for DanSyl44_72:
(Start: 3 @43792 has 23 MA's), (9, 43954), (10, 43960), (11, 43972), (12, 43999), (14, 44044), (19, 44116), (22, 44245), (23, 44278), (28, 44311), (30, 44332), (32, 44398), (33, 44440),

Gene: Eponine_71 Start: 43444, Stop: 44112, Start Num: 3
Candidate Starts for Eponine_71:
(Start: 3 @43444 has 23 MA's), (9, 43606), (10, 43612), (11, 43624), (12, 43651), (14, 43696), (19, 43768), (22, 43897), (23, 43930), (28, 43963), (30, 43984), (32, 44050), (33, 44092),

Gene: Fionnbharth_69 Start: 42842, Stop: 43510, Start Num: 3
Candidate Starts for Fionnbharth_69:
(Start: 3 @42842 has 23 MA's), (9, 43004), (10, 43010), (11, 43022), (12, 43049), (14, 43094), (19, 43166), (22, 43295), (23, 43328), (28, 43361), (30, 43382), (32, 43448), (33, 43490),

Gene: Francois_50 Start: 36554, Stop: 37309, Start Num: 2
Candidate Starts for Francois_50:
(Start: 2 @36554 has 4 MA's), (6, 36662), (8, 36704), (14, 36821), (18, 36884), (19, 36893), (20, 36932), (21, 36941), (29, 37103), (35, 37238),

Gene: JF1_69 Start: 42759, Stop: 43424, Start Num: 3
Candidate Starts for JF1_69:
(Start: 3 @42759 has 23 MA's), (9, 42921), (10, 42927), (11, 42939), (12, 42966), (14, 43011), (19, 43083), (22, 43212), (23, 43245), (27, 43272), (32, 43362), (33, 43404),

Gene: Juliette_71 Start: 42906, Stop: 43574, Start Num: 3
Candidate Starts for Juliette_71:
(Start: 3 @42906 has 23 MA's), (9, 43068), (10, 43074), (11, 43086), (12, 43113), (14, 43158), (19, 43230), (22, 43359), (23, 43392), (28, 43425), (30, 43446), (32, 43512), (33, 43554),

Gene: Kraw_69 Start: 42594, Stop: 43262, Start Num: 3
Candidate Starts for Kraw_69:
(Start: 3 @42594 has 23 MA's), (9, 42756), (10, 42762), (11, 42774), (12, 42801), (14, 42846), (19, 42918), (22, 43047), (23, 43080), (28, 43113), (30, 43134), (32, 43200), (33, 43242),

Gene: Lebo14_68 Start: 42927, Stop: 43595, Start Num: 3
Candidate Starts for Lebo14_68:
(Start: 3 @42927 has 23 MA's), (9, 43089), (10, 43095), (11, 43107), (12, 43134), (14, 43179), (19, 43251), (22, 43380), (23, 43413), (28, 43446), (30, 43467), (32, 43533), (33, 43575),

Gene: Malthus_70 Start: 42594, Stop: 43262, Start Num: 3
Candidate Starts for Malthus_70:
(Start: 3 @42594 has 23 MA's), (9, 42756), (10, 42762), (11, 42774), (12, 42801), (14, 42846), (19, 42918), (22, 43047), (23, 43080), (28, 43113), (30, 43134), (32, 43200), (33, 43242),

Gene: MissDaisy_66 Start: 41506, Stop: 42177, Start Num: 3
Candidate Starts for MissDaisy_66:
(Start: 3 @41506 has 23 MA's), (9, 41668), (10, 41674), (11, 41686), (12, 41713), (14, 41758), (19, 41830), (22, 41959), (23, 41992), (25, 42010), (32, 42115), (33, 42157),

Gene: Mitti_69 Start: 42773, Stop: 43417, Start Num: 3
Candidate Starts for Mitti_69:
(Start: 3 @42773 has 23 MA's), (9, 42935), (10, 42941), (11, 42953), (12, 42980), (14, 43025), (19, 43097), (22, 43226), (23, 43259), (28, 43292), (30, 43313), (32, 43355), (33, 43397),

Gene: Mulch_51 Start: 36552, Stop: 37343, Start Num: 2
Candidate Starts for Mulch_51:
(1, 36198), (Start: 2 @36552 has 4 MA's), (5, 36651), (6, 36660), (7, 36699), (8, 36702), (14, 36819), (18, 36882), (19, 36891), (20, 36930), (21, 36939), (29, 37101), (34, 37236), (35, 37272),

Gene: OmniCritical_68 Start: 42624, Stop: 43298, Start Num: 4
Candidate Starts for OmniCritical_68:
(Start: 4 @42624 has 1 MA's), (9, 42786), (10, 42792), (11, 42804), (12, 42831), (14, 42876), (19, 42948), (22, 43077), (23, 43110), (26, 43131), (31, 43185), (32, 43236), (33, 43278),

Gene: Parada_51 Start: 36552, Stop: 37343, Start Num: 2
Candidate Starts for Parada_51:
(1, 36198), (Start: 2 @36552 has 4 MA's), (5, 36651), (6, 36660), (7, 36699), (8, 36702), (14, 36819), (18, 36882), (19, 36891), (20, 36930), (21, 36939), (29, 37101), (34, 37236), (35, 37272),

Gene: Patt_65 Start: 41230, Stop: 41901, Start Num: 3
Candidate Starts for Patt_65:
(Start: 3 @41230 has 23 MA's), (9, 41392), (10, 41398), (11, 41410), (12, 41437), (14, 41482), (19, 41554), (22, 41683), (23, 41716), (25, 41734), (32, 41839), (33, 41881),

Gene: Qhanda_71 Start: 42610, Stop: 43278, Start Num: 3
Candidate Starts for Qhanda_71:
(Start: 3 @42610 has 23 MA's), (9, 42772), (10, 42778), (11, 42790), (12, 42817), (14, 42862), (19, 42934), (22, 43063), (23, 43096), (28, 43129), (30, 43150), (32, 43216), (33, 43258),

Gene: Reptar3000_66 Start: 41218, Stop: 41889, Start Num: 3
Candidate Starts for Reptar3000_66:

(Start: 3 @41218 has 23 MA's), (7, 41353), (9, 41380), (10, 41386), (11, 41398), (12, 41425), (14, 41470), (19, 41542), (22, 41671), (23, 41704), (25, 41722), (32, 41827), (33, 41869),

Gene: Ruthiejr_70 Start: 42644, Stop: 43309, Start Num: 3
Candidate Starts for Ruthiejr_70:
(Start: 3 @42644 has 23 MA's), (9, 42806), (10, 42812), (11, 42824), (12, 42851), (14, 42896), (19, 42968), (22, 43097), (23, 43130), (27, 43157), (32, 43247), (33, 43289),

Gene: SamScheppers_67 Start: 43073, Stop: 43741, Start Num: 3
Candidate Starts for SamScheppers_67:
(Start: 3 @43073 has 23 MA's), (9, 43235), (10, 43241), (11, 43253), (12, 43280), (14, 43325), (19, 43397), (22, 43526), (23, 43559), (28, 43592), (30, 43613), (32, 43679), (33, 43721),

Gene: Slarp_69 Start: 42601, Stop: 43269, Start Num: 3
Candidate Starts for Slarp_69:
(Start: 3 @42601 has 23 MA's), (9, 42763), (10, 42769), (11, 42781), (12, 42808), (14, 42853), (19, 42925), (22, 43054), (23, 43087), (28, 43120), (30, 43141), (32, 43207), (33, 43249),

Gene: Taquito_68 Start: 42836, Stop: 43474, Start Num: 3
Candidate Starts for Taquito_68:
(Start: 3 @42836 has 23 MA's), (9, 42998), (10, 43004), (11, 43016), (12, 43043), (14, 43088), (19, 43160), (22, 43289), (23, 43322), (28, 43355), (30, 43376), (32, 43412), (33, 43454),

Gene: Wintermute_69 Start: 42831, Stop: 43499, Start Num: 3
Candidate Starts for Wintermute_69:
(Start: 3 @42831 has 23 MA's), (9, 42993), (10, 42999), (11, 43011), (12, 43038), (14, 43083), (19, 43155), (22, 43284), (23, 43317), (28, 43350), (30, 43371), (32, 43437), (33, 43479),

Gene: Y10_66 Start: 42759, Stop: 43424, Start Num: 3
Candidate Starts for Y10_66:
(Start: 3 @42759 has 23 MA's), (9, 42921), (10, 42927), (11, 42939), (12, 42966), (14, 43011), (19, 43083), (22, 43212), (23, 43245), (27, 43272), (32, 43362), (33, 43404),

Gene: Y2_66 Start: 42759, Stop: 43424, Start Num: 3
Candidate Starts for Y2_66:
(Start: 3 @42759 has 23 MA's), (9, 42921), (10, 42927), (11, 42939), (12, 42966), (14, 43011), (19, 43083), (22, 43212), (23, 43245), (27, 43272), (32, 43362), (33, 43404),

Gene: YasnayaPolyana_68 Start: 42684, Stop: 43325, Start Num: 3
Candidate Starts for YasnayaPolyana_68:
(Start: 3 @42684 has 23 MA's), (9, 42846), (10, 42852), (11, 42864), (12, 42891), (14, 42936), (19, 43008), (22, 43137), (23, 43170), (28, 43197), (32, 43263), (33, 43305),