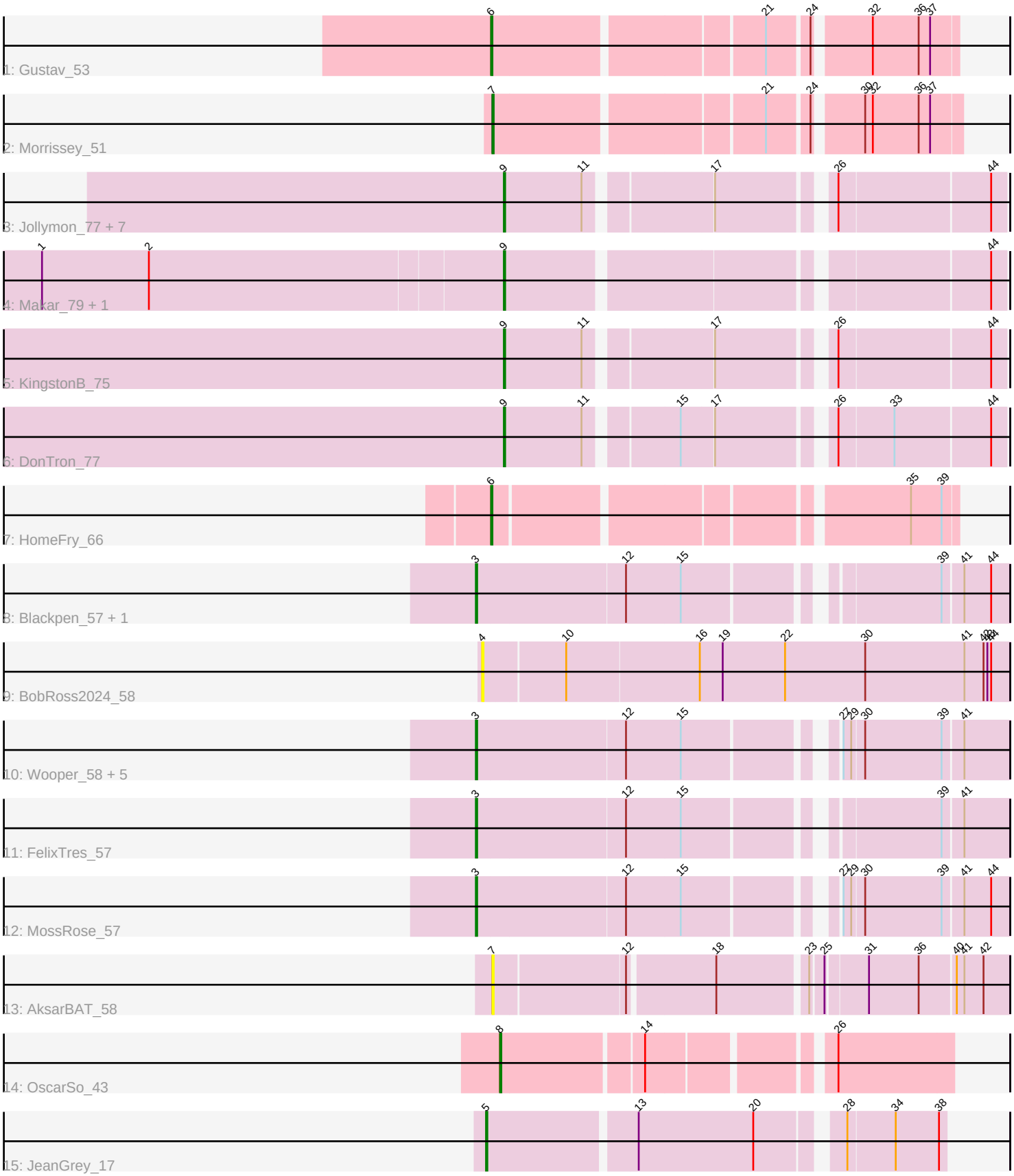
Pham 347920


1: Gustav_53
2: Morrissey_51
3: Jollymon_77 + 7
4: Makar_79 + 1
5: KingstonB_75
6: DonTron_77
7: HomeFry_66
8: Blackpen_57 + 1
9: BobRoss2024_58
10: Wooper_58 + 5
11: FelixTres_57
12: MossRose_57
13: AksarBAT_58
14: OscarSo_43
15: JeanGrey_17

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 347920 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347920 has 29 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Gustav_53
• Track 2 : Morrissey_51
• Track 3 : Jollymon_77, Sting_76, ColdSoup_80, Amo99_80, Purplicious_77, Stillion_76, Soos_73, Grumio_78
• Track 4 : Makar_79, Clawz_77
• Track 5 : KingstonB_75
• Track 6 : DonTron_77
• Track 7 : HomeFry_66
• Track 8 : Blackpen_57, CloverMinnie_57
• Track 9 : BobRoss2024_58
• Track 10 : Wooper_58, Yeshua_58, CaiB_58, TraderJ_58, MakoManhole_55, AnarQue_58
• Track 11 : FelixTres_57
• Track 12 : MossRose_57
• Track 13 : AksarBAT_58
• Track 14 : OscarSo_43
• Track 15 : JeanGrey_17

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 8 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_58, Blackpen_57, CaiB_58, CloverMinnie_57, FelixTres_57, MakoManhole_55, MossRose_57, TraderJ_58, Wooper_58, Yeshua_58,

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

Genes that do not have the "Most Annotated" start:
• AksarBAT_58, Amo99_80, BobRoss2024_58, Clawz_77, ColdSoup_80, DonTron_77, Grumio_78, Gustav_53, HomeFry_66, JeanGrey_17, Jollymon_77, KingstonB_75, Makar_79, Morrissey_51, OscarSo_43, Purplicious_77, Soos_73,

Stillion_76, Sting_76,

Summary by start number:

Start 3:
• Found in 10 of 29 (34.5%) of genes in pham
• Manual Annotations of this start: 8 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnarQue_58 (DR), Blackpen_57 (DR), CaiB_58 (DR), CloverMinnie_57 (DR), FelixTres_57 (DR), MakoManhole_55 (DR), MossRose_57 (DR), TraderJ_58 (DR), Wooper_58 (DR), Yeshua_58 (DR),

Start 4:
• Found in 1 of 29 (3.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BobRoss2024_58 (DR),

Start 5:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JeanGrey_17 (singleton),

Start 6:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gustav_53 (CD), HomeFry_66 (CR5),

Start 7:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_58 (DR), Morrissey_51 (CD),

Start 8:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OscarSo_43 (GJ),

Start 9:
• Found in 12 of 29 (41.4%) of genes in pham
• Manual Annotations of this start: 7 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_80 (CP), Clawz_77 (CP), ColdSoup_80 (CP), DonTron_77 (CP), Grumio_78 (CP), Jollymon_77 (CP), KingstonB_75 (CP), Makar_79 (CP), Purplicious_77 (CP), Soos_73 (CP), Stillion_76 (CP), Sting_76 (CP),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, CR5, CD, CP, DR, GJ,

Info for manual annotations of cluster CD:
•Start number 6 was manually annotated 1 time for cluster CD.
•Start number 7 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CP:
•Start number 9 was manually annotated 7 times for cluster CP.

Info for manual annotations of cluster CR5:
•Start number 6 was manually annotated 1 time for cluster CR5.

Info for manual annotations of cluster DR:
•Start number 3 was manually annotated 8 times for cluster DR.

Info for manual annotations of cluster GJ:
•Start number 8 was manually annotated 1 time for cluster GJ.

Gene Information:

Gene: AksarBAT_58 Start: 49271, Stop: 48897, Start Num: 7
Candidate Starts for AksarBAT_58:
(Start: 7 @49271 has 1 MA's), (12, 49172), (18, 49109), (23, 49043), (25, 49034), (31, 49004), (36, 48965), (40, 48938), (41, 48932), (42, 48917),

Gene: Amo99_80 Start: 51380, Stop: 51730, Start Num: 9
Candidate Starts for Amo99_80:
(Start: 9 @51380 has 7 MA's), (11, 51440), (17, 51527), (26, 51605), (44, 51719),

Gene: AnarQue_58 Start: 49672, Stop: 49292, Start Num: 3
Candidate Starts for AnarQue_58:
(Start: 3 @49672 has 8 MA's), (12, 49558), (15, 49516), (27, 49417), (29, 49411), (30, 49402), (39, 49342), (41, 49327),

Gene: Blackpen_57 Start: 48750, Stop: 48370, Start Num: 3
Candidate Starts for Blackpen_57:
(Start: 3 @48750 has 8 MA's), (12, 48636), (15, 48594), (39, 48420), (41, 48405), (44, 48384),

Gene: BobRoss2024_58 Start: 48643, Stop: 48239, Start Num: 4
Candidate Starts for BobRoss2024_58:
(4, 48643), (10, 48583), (16, 48481), (19, 48463), (22, 48415), (30, 48352), (41, 48274), (42, 48259), (43, 48256), (44, 48253),

Gene: CaiB_58 Start: 50226, Stop: 49846, Start Num: 3
Candidate Starts for CaiB_58:
(Start: 3 @50226 has 8 MA's), (12, 50112), (15, 50070), (27, 49971), (29, 49965), (30, 49956), (39, 49896), (41, 49881),

Gene: Clawz_77 Start: 51358, Stop: 51711, Start Num: 9
Candidate Starts for Clawz_77:
(1, 51001), (2, 51085), (Start: 9 @51358 has 7 MA's), (44, 51700),

Gene: CloverMinnie_57 Start: 49258, Stop: 48878, Start Num: 3
Candidate Starts for CloverMinnie_57:
(Start: 3 @49258 has 8 MA's), (12, 49144), (15, 49102), (39, 48928), (41, 48913), (44, 48892),

Gene: ColdSoup_80 Start: 51461, Stop: 51811, Start Num: 9
Candidate Starts for ColdSoup_80:
(Start: 9 @51461 has 7 MA's), (11, 51521), (17, 51608), (26, 51686), (44, 51800),

Gene: DonTron_77 Start: 51339, Stop: 51689, Start Num: 9
Candidate Starts for DonTron_77:
(Start: 9 @51339 has 7 MA's), (11, 51399), (15, 51462), (17, 51486), (26, 51564), (33, 51606), (44, 51678),

Gene: FelixTres_57 Start: 49293, Stop: 48913, Start Num: 3
Candidate Starts for FelixTres_57:
(Start: 3 @49293 has 8 MA's), (12, 49179), (15, 49137), (39, 48963), (41, 48948),

Gene: Grumio_78 Start: 50939, Stop: 51289, Start Num: 9
Candidate Starts for Grumio_78:
(Start: 9 @50939 has 7 MA's), (11, 50999), (17, 51086), (26, 51164), (44, 51278),

Gene: Gustav_53 Start: 38013, Stop: 37681, Start Num: 6
Candidate Starts for Gustav_53:
(Start: 6 @38013 has 2 MA's), (21, 37815), (24, 37785), (32, 37746), (36, 37710), (37, 37701),

Gene: HomeFry_66 Start: 47390, Stop: 47061, Start Num: 6
Candidate Starts for HomeFry_66:
(Start: 6 @47390 has 2 MA's), (35, 47096), (39, 47072),

Gene: JeanGrey_17 Start: 8765, Stop: 9097, Start Num: 5
Candidate Starts for JeanGrey_17:
(Start: 5 @8765 has 1 MA's), (13, 8876), (20, 8966), (28, 9023), (34, 9059), (38, 9092),

Gene: Jollymon_77 Start: 51461, Stop: 51811, Start Num: 9
Candidate Starts for Jollymon_77:
(Start: 9 @51461 has 7 MA's), (11, 51521), (17, 51608), (26, 51686), (44, 51800),

Gene: KingstonB_75 Start: 50773, Stop: 51123, Start Num: 9
Candidate Starts for KingstonB_75:
(Start: 9 @50773 has 7 MA's), (11, 50833), (17, 50920), (26, 50998), (44, 51112),

Gene: Makar_79 Start: 51090, Stop: 51443, Start Num: 9
Candidate Starts for Makar_79:
(1, 50733), (2, 50817), (Start: 9 @51090 has 7 MA's), (44, 51432),

Gene: MakoManhole_55 Start: 48750, Stop: 48370, Start Num: 3
Candidate Starts for MakoManhole_55:
(Start: 3 @48750 has 8 MA's), (12, 48636), (15, 48594), (27, 48495), (29, 48489), (30, 48480), (39, 48420), (41, 48405),

Gene: Morrissey_51 Start: 38812, Stop: 38477, Start Num: 7
Candidate Starts for Morrissey_51:

(Start: 7 @38812 has 1 MA's), (21, 38614), (24, 38584), (30, 38551), (32, 38545), (36, 38509), (37, 38500),

Gene: MossRose_57 Start: 49303, Stop: 48923, Start Num: 3
Candidate Starts for MossRose_57:
(Start: 3 @49303 has 8 MA's), (12, 49189), (15, 49147), (27, 49048), (29, 49042), (30, 49033), (39, 48973), (41, 48958), (44, 48937),

Gene: OscarSo_43 Start: 27954, Stop: 27634, Start Num: 8
Candidate Starts for OscarSo_43:
(Start: 8 @27954 has 1 MA's), (14, 27849), (26, 27723),

Gene: Purplicious_77 Start: 50704, Stop: 51054, Start Num: 9
Candidate Starts for Purplicious_77:
(Start: 9 @50704 has 7 MA's), (11, 50764), (17, 50851), (26, 50929), (44, 51043),

Gene: Soos_73 Start: 50665, Stop: 51015, Start Num: 9
Candidate Starts for Soos_73:
(Start: 9 @50665 has 7 MA's), (11, 50725), (17, 50812), (26, 50890), (44, 51004),

Gene: Stillion_76 Start: 51262, Stop: 51612, Start Num: 9
Candidate Starts for Stillion_76:
(Start: 9 @51262 has 7 MA's), (11, 51322), (17, 51409), (26, 51487), (44, 51601),

Gene: Sting_76 Start: 51104, Stop: 51454, Start Num: 9
Candidate Starts for Sting_76:
(Start: 9 @51104 has 7 MA's), (11, 51164), (17, 51251), (26, 51329), (44, 51443),

Gene: TraderJ_58 Start: 49635, Stop: 49255, Start Num: 3
Candidate Starts for TraderJ_58:
(Start: 3 @49635 has 8 MA's), (12, 49521), (15, 49479), (27, 49380), (29, 49374), (30, 49365), (39, 49305), (41, 49290),

Gene: Wooper_58 Start: 49644, Stop: 49264, Start Num: 3
Candidate Starts for Wooper_58:
(Start: 3 @49644 has 8 MA's), (12, 49530), (15, 49488), (27, 49389), (29, 49383), (30, 49374), (39, 49314), (41, 49299),

Gene: Yeshua_58 Start: 49621, Stop: 49241, Start Num: 3
Candidate Starts for Yeshua_58:
(Start: 3 @49621 has 8 MA's), (12, 49507), (15, 49465), (27, 49366), (29, 49360), (30, 49351), (39, 49291), (41, 49276),