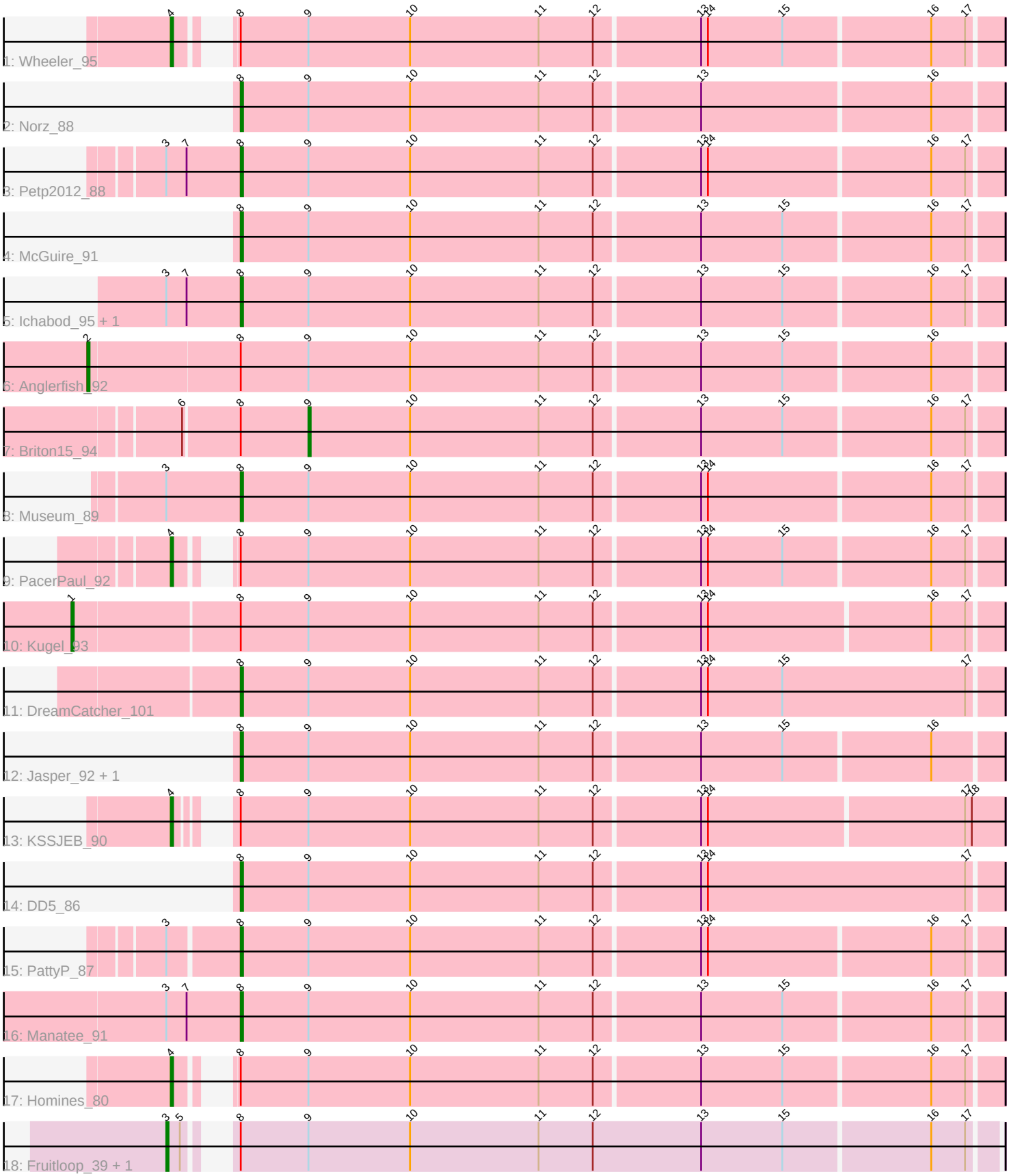
Pham 348040


1: Wheeler_95
2: Norz_88
3: Petp2012_88
4: McGuire_91
5: Ichabod_95 + 1
6: Anglerfish_92
7: Briton15_94
8: Museum_89
9: PacerPaul_92
10: Kugel_93
11: DreamCatcher_101
12: Jasper_92 + 1
13: KSSJEB_90
14: DD5_86
15: PattyP_87
16: Manatee_91
17: Homines_80
18: Fruitloop_39 + 1

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 348040 Report

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

Pham number 348040 has 21 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Wheeler_95
• Track 2 : Norz_88
• Track 3 : Petp2012_88
• Track 4 : McGuire_91
• Track 5 : Ichabod_95, Dynamix_91
• Track 6 : Anglerfish_92
• Track 7 : Briton15_94
• Track 8 : Museum_89
• Track 9 : PacerPaul_92
• Track 10 : Kugel_93
• Track 11 : DreamCatcher_101
• Track 12 : Jasper_92, Dreamboat_92
• Track 13 : KSSJEB_90
• Track 14 : DD5_86
• Track 15 : PattyP_87
• Track 16 : Manatee_91
• Track 17 : Homines_80
• Track 18 : Fruitloop_39, Melissauren88_41

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

The start number called the most often in the published annotations is 8, it was called in 12 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DD5_86, DreamCatcher_101, Dreamboat_92, Dynamix_91, Ichabod_95, Jasper_92, Manatee_91, McGuire_91, Museum_89, Norz_88, PattyP_87, Petp2012_88,

Genes that have the "Most Annotated" start but do not call it:
• Anglerfish_92, Briton15_94, Fruitloop_39, Homines_80, KSSJEB_90, Kugel_93, Melissauren88_41, PacerPaul_92, Wheeler_95,

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

•

Summary by start number:

Start 1:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kugel_93 (A1),

Start 2:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anglerfish_92 (A1),

Start 3:
• Found in 8 of 21 (38.1%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Fruitloop_39 (F1), Melissauren88_41 (F1),

Start 4:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Homines_80 (A1), KSSJEB_90 (A1), PacerPaul_92 (A1), Wheeler_95 (A1),

Start 8:
• Found in 21 of 21 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 21
• Called 57.1% of time when present
• Phage (with cluster) where this start called: DD5_86 (A1), DreamCatcher_101 (A1), Dreamboat_92 (A1), Dynamix_91 (A1), Ichabod_95 (A1), Jasper_92 (A1), Manatee_91 (A1), McGuire_91 (A1), Museum_89 (A1), Norz_88 (A1), PattyP_87 (A1), Petp2012_88 (A1),

Start 9:
• Found in 21 of 21 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Briton15_94 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 1 time for cluster A1.
•Start number 2 was manually annotated 1 time for cluster A1.
•Start number 4 was manually annotated 4 times for cluster A1.

•Start number 8 was manually annotated 12 times for cluster A1.
•Start number 9 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster F1:
•Start number 3 was manually annotated 2 times for cluster F1.

Gene Information:

Gene: Anglerfish_92 Start: 51776, Stop: 51381, Start Num: 2
Candidate Starts for Anglerfish_92:
(Start: 2 @51776 has 1 MA's), (Start: 8 @51710 has 12 MA's), (Start: 9 @51680 has 1 MA's), (10, 51635), (11, 51578), (12, 51554), (13, 51509), (15, 51473), (16, 51410),

Gene: Briton15_94 Start: 52330, Stop: 52031, Start Num: 9
Candidate Starts for Briton15_94:
(6, 52384), (Start: 8 @52360 has 12 MA's), (Start: 9 @52330 has 1 MA's), (10, 52285), (11, 52228), (12, 52204), (13, 52159), (15, 52123), (16, 52060), (17, 52045),

Gene: DD5_86 Start: 50934, Stop: 50602, Start Num: 8
Candidate Starts for DD5_86:
(Start: 8 @50934 has 12 MA's), (Start: 9 @50904 has 1 MA's), (10, 50859), (11, 50802), (12, 50778), (13, 50733), (14, 50730), (17, 50616),

Gene: DreamCatcher_101 Start: 52742, Stop: 52410, Start Num: 8
Candidate Starts for DreamCatcher_101:
(Start: 8 @52742 has 12 MA's), (Start: 9 @52712 has 1 MA's), (10, 52667), (11, 52610), (12, 52586), (13, 52541), (14, 52538), (15, 52505), (17, 52424),

Gene: Dreamboat_92 Start: 50157, Stop: 49828, Start Num: 8
Candidate Starts for Dreamboat_92:
(Start: 8 @50157 has 12 MA's), (Start: 9 @50127 has 1 MA's), (10, 50082), (11, 50025), (12, 50001), (13, 49956), (15, 49920), (16, 49857),

Gene: Dynamix_91 Start: 49949, Stop: 49620, Start Num: 8
Candidate Starts for Dynamix_91:
(Start: 3 @49982 has 2 MA's), (7, 49973), (Start: 8 @49949 has 12 MA's), (Start: 9 @49919 has 1 MA's), (10, 49874), (11, 49817), (12, 49793), (13, 49748), (15, 49712), (16, 49649), (17, 49634),

Gene: Fruitloop_39 Start: 32115, Stop: 31771, Start Num: 3
Candidate Starts for Fruitloop_39:
(Start: 3 @32115 has 2 MA's), (5, 32109), (Start: 8 @32100 has 12 MA's), (Start: 9 @32070 has 1 MA's), (10, 32025), (11, 31968), (12, 31944), (13, 31896), (15, 31860), (16, 31797), (17, 31782),

Gene: Homines_80 Start: 46179, Stop: 45838, Start Num: 4
Candidate Starts for Homines_80:
(Start: 4 @46179 has 4 MA's), (Start: 8 @46167 has 12 MA's), (Start: 9 @46137 has 1 MA's), (10, 46092), (11, 46035), (12, 46011), (13, 45966), (15, 45930), (16, 45867), (17, 45852),

Gene: Ichabod_95 Start: 52639, Stop: 52310, Start Num: 8
Candidate Starts for Ichabod_95:

(Start: 3 @52672 has 2 MA's), (7, 52663), (Start: 8 @52639 has 12 MA's), (Start: 9 @52609 has 1 MA's), (10, 52564), (11, 52507), (12, 52483), (13, 52438), (15, 52402), (16, 52339), (17, 52324),

Gene: Jasper_92 Start: 50043, Stop: 49714, Start Num: 8
Candidate Starts for Jasper_92:
(Start: 8 @50043 has 12 MA's), (Start: 9 @50013 has 1 MA's), (10, 49968), (11, 49911), (12, 49887), (13, 49842), (15, 49806), (16, 49743),

Gene: KSSJEB_90 Start: 50492, Stop: 50148, Start Num: 4
Candidate Starts for KSSJEB_90:
(Start: 4 @50492 has 4 MA's), (Start: 8 @50480 has 12 MA's), (Start: 9 @50450 has 1 MA's), (10, 50405), (11, 50348), (12, 50324), (13, 50279), (14, 50276), (17, 50165), (18, 50162),

Gene: Kugel_93 Start: 51783, Stop: 51382, Start Num: 1
Candidate Starts for Kugel_93:
(Start: 1 @51783 has 1 MA's), (Start: 8 @51711 has 12 MA's), (Start: 9 @51681 has 1 MA's), (10, 51636), (11, 51579), (12, 51555), (13, 51510), (14, 51507), (16, 51411), (17, 51396),

Gene: Manatee_91 Start: 50362, Stop: 50033, Start Num: 8
Candidate Starts for Manatee_91:
(Start: 3 @50395 has 2 MA's), (7, 50386), (Start: 8 @50362 has 12 MA's), (Start: 9 @50332 has 1 MA's), (10, 50287), (11, 50230), (12, 50206), (13, 50161), (15, 50125), (16, 50062), (17, 50047),

Gene: McGuire_91 Start: 50596, Stop: 50267, Start Num: 8
Candidate Starts for McGuire_91:
(Start: 8 @50596 has 12 MA's), (Start: 9 @50566 has 1 MA's), (10, 50521), (11, 50464), (12, 50440), (13, 50395), (15, 50359), (16, 50296), (17, 50281),

Gene: Melissauren88_41 Start: 32111, Stop: 31767, Start Num: 3
Candidate Starts for Melissauren88_41:
(Start: 3 @32111 has 2 MA's), (5, 32105), (Start: 8 @32096 has 12 MA's), (Start: 9 @32066 has 1 MA's), (10, 32021), (11, 31964), (12, 31940), (13, 31892), (15, 31856), (16, 31793), (17, 31778),

Gene: Museum_89 Start: 50756, Stop: 50427, Start Num: 8
Candidate Starts for Museum_89:
(Start: 3 @50789 has 2 MA's), (Start: 8 @50756 has 12 MA's), (Start: 9 @50726 has 1 MA's), (10, 50681), (11, 50624), (12, 50600), (13, 50555), (14, 50552), (16, 50456), (17, 50441),

Gene: Norz_88 Start: 53001, Stop: 52672, Start Num: 8
Candidate Starts for Norz_88:
(Start: 8 @53001 has 12 MA's), (Start: 9 @52971 has 1 MA's), (10, 52926), (11, 52869), (12, 52845), (13, 52800), (16, 52701),

Gene: PacerPaul_92 Start: 52112, Stop: 51771, Start Num: 4
Candidate Starts for PacerPaul_92:
(Start: 4 @52112 has 4 MA's), (Start: 8 @52100 has 12 MA's), (Start: 9 @52070 has 1 MA's), (10, 52025), (11, 51968), (12, 51944), (13, 51899), (14, 51896), (15, 51863), (16, 51800), (17, 51785),

Gene: PattyP_87 Start: 50303, Stop: 49974, Start Num: 8
Candidate Starts for PattyP_87:
(Start: 3 @50333 has 2 MA's), (Start: 8 @50303 has 12 MA's), (Start: 9 @50273 has 1 MA's), (10, 50228), (11, 50171), (12, 50147), (13, 50102), (14, 50099), (16, 50003), (17, 49988),

Gene: Petp2012_88 Start: 51046, Stop: 50717, Start Num: 8
Candidate Starts for Petp2012_88:
(Start: 3 @51079 has 2 MA's), (7, 51070), (Start: 8 @51046 has 12 MA's), (Start: 9 @51016 has 1 MA's), (10, 50971), (11, 50914), (12, 50890), (13, 50845), (14, 50842), (16, 50746), (17, 50731),

Gene: Wheeler_95 Start: 52965, Stop: 52624, Start Num: 4
Candidate Starts for Wheeler_95:
(Start: 4 @52965 has 4 MA's), (Start: 8 @52953 has 12 MA's), (Start: 9 @52923 has 1 MA's), (10, 52878), (11, 52821), (12, 52797), (13, 52752), (14, 52749), (15, 52716), (16, 52653), (17, 52638),