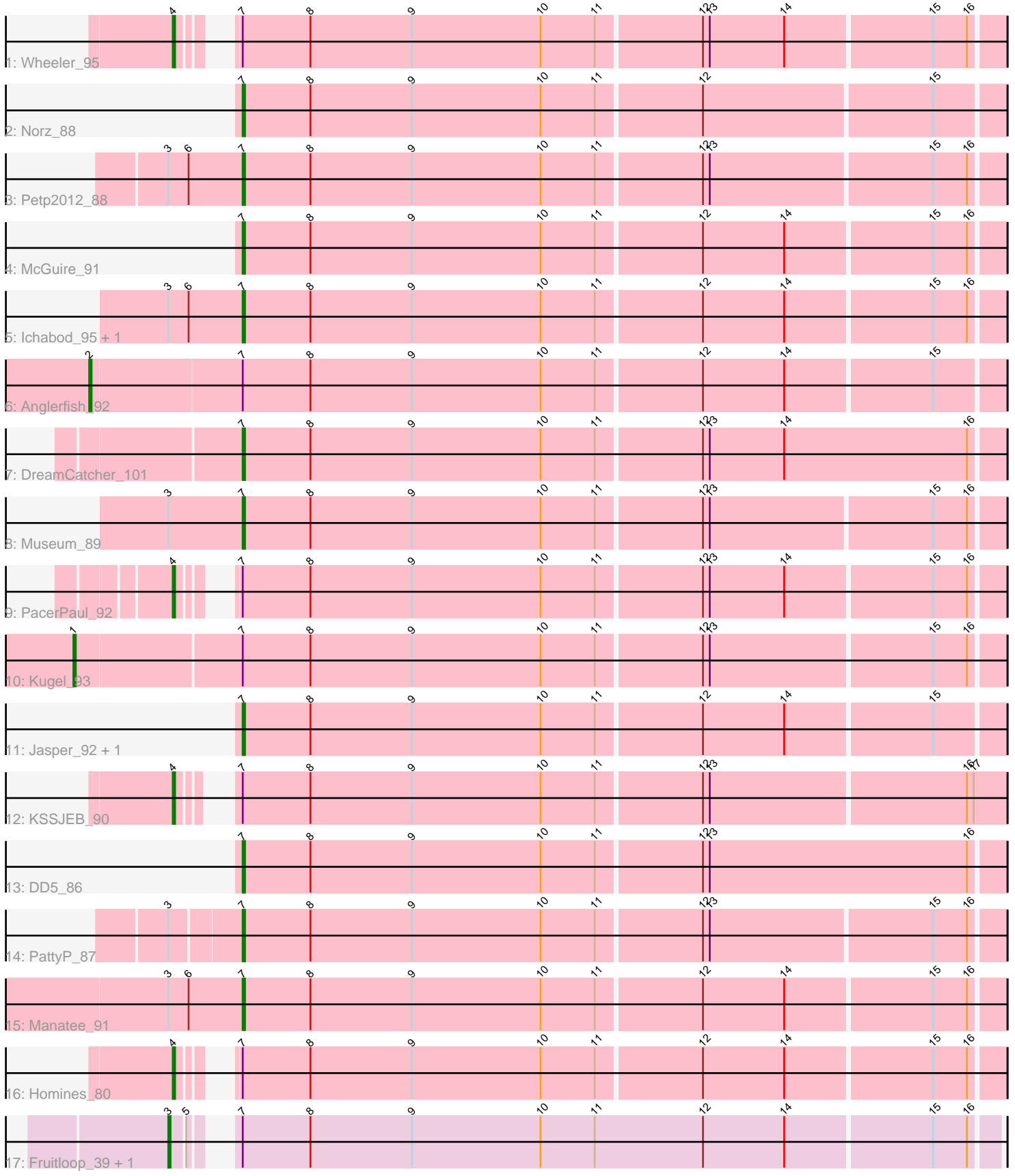


Pham 309308



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 309308 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309308 has 20 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 : DreamCatcher_101
- Track 8 : Museum_89
- Track 9 : PacerPaul_92
- Track 10 : Kugel_93
- Track 11 : Jasper_92, Dreamboat_92
- Track 12 : KSSJEB_90
- Track 13 : DD5_86
- Track 14 : PattyP_87
- Track 15 : Manatee_91
- Track 16 : Homines_80
- Track 17 : 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 7, it was called in 12 of the 20 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, 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 20 (5.0%) 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: Kugel_93 (A1),

Start 2:

- Found in 1 of 20 (5.0%) 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: Anglerfish_92 (A1),

Start 3:

- Found in 8 of 20 (40.0%) of genes in pham
- Manual Annotations of this start: 2 of 20
- 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 20 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 20
- 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 7:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 20
- Called 60.0% 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),

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 7 was manually annotated 12 times 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: 7 @51710 has 12 MA's), (8, 51680), (9, 51635), (10, 51578), (11, 51554), (12, 51509), (14, 51473), (15, 51410),

Gene: DD5_86 Start: 50934, Stop: 50602, Start Num: 7

Candidate Starts for DD5_86:

(Start: 7 @50934 has 12 MA's), (8, 50904), (9, 50859), (10, 50802), (11, 50778), (12, 50733), (13, 50730), (16, 50616),

Gene: DreamCatcher_101 Start: 52742, Stop: 52410, Start Num: 7

Candidate Starts for DreamCatcher_101:

(Start: 7 @52742 has 12 MA's), (8, 52712), (9, 52667), (10, 52610), (11, 52586), (12, 52541), (13, 52538), (14, 52505), (16, 52424),

Gene: Dreamboat_92 Start: 50157, Stop: 49828, Start Num: 7

Candidate Starts for Dreamboat_92:

(Start: 7 @50157 has 12 MA's), (8, 50127), (9, 50082), (10, 50025), (11, 50001), (12, 49956), (14, 49920), (15, 49857),

Gene: Dynamix_91 Start: 49949, Stop: 49620, Start Num: 7

Candidate Starts for Dynamix_91:

(Start: 3 @49982 has 2 MA's), (6, 49973), (Start: 7 @49949 has 12 MA's), (8, 49919), (9, 49874), (10, 49817), (11, 49793), (12, 49748), (14, 49712), (15, 49649), (16, 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: 7 @32100 has 12 MA's), (8, 32070), (9, 32025), (10, 31968), (11, 31944), (12, 31896), (14, 31860), (15, 31797), (16, 31782),

Gene: Homines_80 Start: 46179, Stop: 45838, Start Num: 4

Candidate Starts for Homines_80:

(Start: 4 @46179 has 4 MA's), (Start: 7 @46167 has 12 MA's), (8, 46137), (9, 46092), (10, 46035), (11, 46011), (12, 45966), (14, 45930), (15, 45867), (16, 45852),

Gene: Ichabod_95 Start: 52639, Stop: 52310, Start Num: 7

Candidate Starts for Ichabod_95:

(Start: 3 @52672 has 2 MA's), (6, 52663), (Start: 7 @52639 has 12 MA's), (8, 52609), (9, 52564), (10, 52507), (11, 52483), (12, 52438), (14, 52402), (15, 52339), (16, 52324),

Gene: Jasper_92 Start: 50043, Stop: 49714, Start Num: 7

Candidate Starts for Jasper_92:

(Start: 7 @50043 has 12 MA's), (8, 50013), (9, 49968), (10, 49911), (11, 49887), (12, 49842), (14, 49806), (15, 49743),

Gene: KSSJEB_90 Start: 50492, Stop: 50148, Start Num: 4

Candidate Starts for KSSJEB_90:

(Start: 4 @50492 has 4 MA's), (Start: 7 @50480 has 12 MA's), (8, 50450), (9, 50405), (10, 50348), (11, 50324), (12, 50279), (13, 50276), (16, 50165), (17, 50162),

Gene: Kugel_93 Start: 51783, Stop: 51382, Start Num: 1

Candidate Starts for Kugel_93:

(Start: 1 @51783 has 1 MA's), (Start: 7 @51711 has 12 MA's), (8, 51681), (9, 51636), (10, 51579), (11, 51555), (12, 51510), (13, 51507), (15, 51411), (16, 51396),

Gene: Manatee_91 Start: 50362, Stop: 50033, Start Num: 7

Candidate Starts for Manatee_91:

(Start: 3 @50395 has 2 MA's), (6, 50386), (Start: 7 @50362 has 12 MA's), (8, 50332), (9, 50287), (10, 50230), (11, 50206), (12, 50161), (14, 50125), (15, 50062), (16, 50047),

Gene: McGuire_91 Start: 50596, Stop: 50267, Start Num: 7

Candidate Starts for McGuire_91:

(Start: 7 @50596 has 12 MA's), (8, 50566), (9, 50521), (10, 50464), (11, 50440), (12, 50395), (14, 50359), (15, 50296), (16, 50281),

Gene: Melissau88_41 Start: 32111, Stop: 31767, Start Num: 3

Candidate Starts for Melissau88_41:

(Start: 3 @32111 has 2 MA's), (5, 32105), (Start: 7 @32096 has 12 MA's), (8, 32066), (9, 32021), (10, 31964), (11, 31940), (12, 31892), (14, 31856), (15, 31793), (16, 31778),

Gene: Museum_89 Start: 50756, Stop: 50427, Start Num: 7

Candidate Starts for Museum_89:

(Start: 3 @50789 has 2 MA's), (Start: 7 @50756 has 12 MA's), (8, 50726), (9, 50681), (10, 50624), (11, 50600), (12, 50555), (13, 50552), (15, 50456), (16, 50441),

Gene: Norz_88 Start: 53001, Stop: 52672, Start Num: 7

Candidate Starts for Norz_88:

(Start: 7 @53001 has 12 MA's), (8, 52971), (9, 52926), (10, 52869), (11, 52845), (12, 52800), (15, 52701),

Gene: PacerPaul_92 Start: 52112, Stop: 51771, Start Num: 4

Candidate Starts for PacerPaul_92:

(Start: 4 @52112 has 4 MA's), (Start: 7 @52100 has 12 MA's), (8, 52070), (9, 52025), (10, 51968), (11, 51944), (12, 51899), (13, 51896), (14, 51863), (15, 51800), (16, 51785),

Gene: PattyP_87 Start: 50303, Stop: 49974, Start Num: 7

Candidate Starts for PattyP_87:

(Start: 3 @50333 has 2 MA's), (Start: 7 @50303 has 12 MA's), (8, 50273), (9, 50228), (10, 50171), (11, 50147), (12, 50102), (13, 50099), (15, 50003), (16, 49988),

Gene: Petp2012_88 Start: 51046, Stop: 50717, Start Num: 7

Candidate Starts for Petp2012_88:

(Start: 3 @51079 has 2 MA's), (6, 51070), (Start: 7 @51046 has 12 MA's), (8, 51016), (9, 50971), (10, 50914), (11, 50890), (12, 50845), (13, 50842), (15, 50746), (16, 50731),

Gene: Wheeler_95 Start: 52965, Stop: 52624, Start Num: 4

Candidate Starts for Wheeler_95:

(Start: 4 @52965 has 4 MA's), (Start: 7 @52953 has 12 MA's), (8, 52923), (9, 52878), (10, 52821), (11, 52797), (12, 52752), (13, 52749), (14, 52716), (15, 52653), (16, 52638),