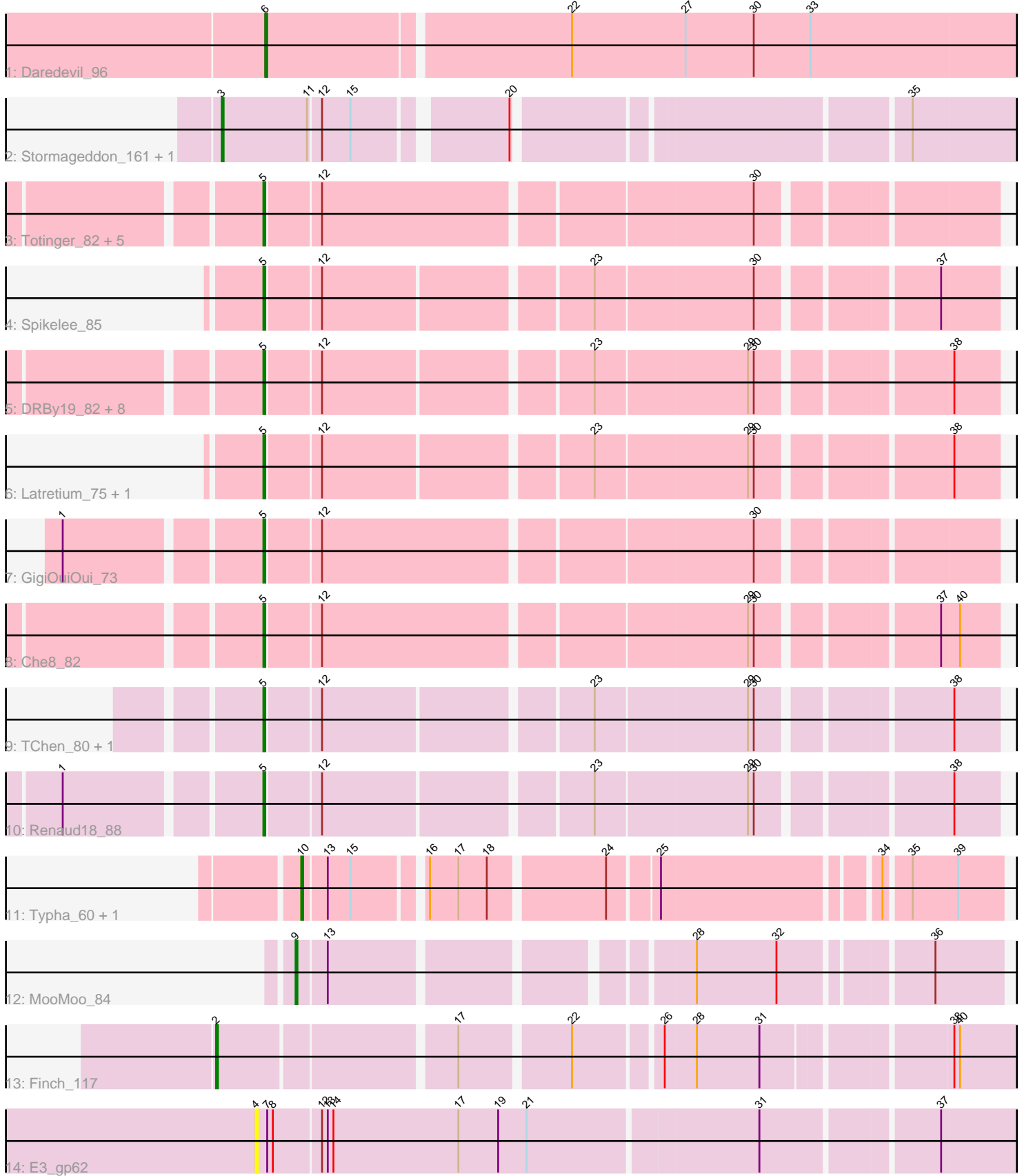


Pham 163816



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 163816 Report

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

Pham number 163816 has 31 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Daredevil_96
- Track 2 : Stormageddon_161, RedWattleHog_160
- Track 3 : Totinger_82, Nivrat_75, LilMoolah_77, Starcevich_79, Fastidio_77, LittleShirley_85
- Track 4 : Spikelee_85
- Track 5 : DRBy19_82, Jarcob_78, OlympiaSaint_78, IbOuu_76, Clifton_71, James_79, ShroomBoi_79, Philus_81, Bipolar_81
- Track 6 : Latretium_75, OwlsT2W_80
- Track 7 : GigiOuiOui_73
- Track 8 : Che8_82
- Track 9 : TChen_80, LunaStella_71
- Track 10 : Renaud18_88
- Track 11 : Typha_60, Hilltopfarm_60
- Track 12 : MooMoo_84
- Track 13 : Finch_117
- Track 14 : E3_gp62

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

The start number called the most often in the published annotations is 5, it was called in 18 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bipolar_81, Che8_82, Clifton_71, DRBy19_82, Fastidio_77, GigiOuiOui_73, IbOuu_76, James_79, Jarcob_78, Latretium_75, LilMoolah_77, LittleShirley_85, LunaStella_71, Nivrat_75, OlympiaSaint_78, OwlsT2W_80, Philus_81, Renaud18_88, ShroomBoi_79, Spikelee_85, Starcevich_79, TChen_80, Totinger_82,

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

-

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

- Daredevil_96, E3_gp62, Finch_117, Hilltopfarm_60, MooMoo_84, RedWattleHog_160, Stormageddon_161, Typha_60,

Summary by start number:

Start 2:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_117 (singleton),

Start 3:

- Found in 2 of 31 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog_160 (DX), Stormageddon_161 (DX),

Start 4:

- Found in 1 of 31 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3_gp62 (singleton),

Start 5:

- Found in 23 of 31 (74.2%) of genes in pham
- Manual Annotations of this start: 18 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipolar_81 (F1), Che8_82 (F1), Clifton_71 (F1), DRBy19_82 (F1), Fastidio_77 (F1), GigiOuiOui_73 (F1), IbOuu_76 (F1), James_79 (F1), Jarcob_78 (F1), Latretium_75 (F1), LilMoolah_77 (F1), LittleShirley_85 (F1), LunaStella_71 (F4), Nivrat_75 (F1), OlympiaSaint_78 (F1), OwlsT2W_80 (F1), Philus_81 (F1), Renaud18_88 (F4), ShroomBoi_79 (F1), Spikelee_85 (F1), Starcevich_79 (F1), TChen_80 (F4), Totinger_82 (F1),

Start 6:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_96 (DL),

Start 9:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_84 (singleton),

Start 10:

- Found in 2 of 31 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hilltopfarm_60 (Y), Typha_60 (Y),

Summary by clusters:

There are 6 clusters represented in this pham: F1, DL, F4, singleton, DX, Y,

Info for manual annotations of cluster DL:

•Start number 6 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DX:

•Start number 3 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster F1:

•Start number 5 was manually annotated 16 times for cluster F1.

Info for manual annotations of cluster F4:

•Start number 5 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster Y:

•Start number 10 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: Bipolar_81 Start: 49898, Stop: 50251, Start Num: 5

Candidate Starts for Bipolar_81:

(Start: 5 @49898 has 18 MA's), (12, 49925), (23, 50057), (29, 50135), (30, 50138), (38, 50228),

Gene: Che8_82 Start: 48631, Stop: 48987, Start Num: 5

Candidate Starts for Che8_82:

(Start: 5 @48631 has 18 MA's), (12, 48658), (29, 48871), (30, 48874), (37, 48958), (40, 48967),

Gene: Clifton_71 Start: 46466, Stop: 46819, Start Num: 5

Candidate Starts for Clifton_71:

(Start: 5 @46466 has 18 MA's), (12, 46493), (23, 46625), (29, 46703), (30, 46706), (38, 46796),

Gene: DRBy19_82 Start: 50195, Stop: 50548, Start Num: 5

Candidate Starts for DRBy19_82:

(Start: 5 @50195 has 18 MA's), (12, 50222), (23, 50354), (29, 50432), (30, 50435), (38, 50525),

Gene: Daredevil_96 Start: 64552, Stop: 64944, Start Num: 6

Candidate Starts for Daredevil_96:

(Start: 6 @64552 has 1 MA's), (22, 64705), (27, 64765), (30, 64801), (33, 64831),

Gene: E3_gp62 Start: 24510, Stop: 24896, Start Num: 4

Candidate Starts for E3_gp62:

(4, 24510), (7, 24516), (8, 24519), (12, 24543), (13, 24546), (14, 24549), (17, 24615), (19, 24636), (21, 24651), (31, 24768), (37, 24855),

Gene: Fastidio_77 Start: 45442, Stop: 45798, Start Num: 5

Candidate Starts for Fastidio_77:

(Start: 5 @45442 has 18 MA's), (12, 45469), (30, 45685),

Gene: Finch_117 Start: 86737, Stop: 87120, Start Num: 2

Candidate Starts for Finch_117:

(Start: 2 @86737 has 1 MA's), (17, 86854), (22, 86908), (26, 86950), (28, 86965), (31, 86998), (38, 87088), (40, 87091),

Gene: GigiOuiOui_73 Start: 47038, Stop: 47394, Start Num: 5

Candidate Starts for GigiOuiOui_73:

(1, 46942), (Start: 5 @47038 has 18 MA's), (12, 47065), (30, 47281),

Gene: Hilltopfarm_60 Start: 44032, Stop: 44364, Start Num: 10

Candidate Starts for Hilltopfarm_60:

(Start: 10 @44032 has 2 MA's), (13, 44044), (15, 44056), (16, 44089), (17, 44104), (18, 44119), (24, 44176), (25, 44200), (34, 44305), (35, 44317), (39, 44341),

Gene: lbOuu_76 Start: 46272, Stop: 46625, Start Num: 5

Candidate Starts for lbOuu_76:

(Start: 5 @46272 has 18 MA's), (12, 46299), (23, 46431), (29, 46509), (30, 46512), (38, 46602),

Gene: James_79 Start: 49530, Stop: 49883, Start Num: 5

Candidate Starts for James_79:

(Start: 5 @49530 has 18 MA's), (12, 49557), (23, 49689), (29, 49767), (30, 49770), (38, 49860),

Gene: Jarcob_78 Start: 49127, Stop: 49480, Start Num: 5

Candidate Starts for Jarcob_78:

(Start: 5 @49127 has 18 MA's), (12, 49154), (23, 49286), (29, 49364), (30, 49367), (38, 49457),

Gene: Latretium_75 Start: 45992, Stop: 46345, Start Num: 5

Candidate Starts for Latretium_75:

(Start: 5 @45992 has 18 MA's), (12, 46019), (23, 46151), (29, 46229), (30, 46232), (38, 46322),

Gene: LilMoolah_77 Start: 48185, Stop: 48448, Start Num: 5

Candidate Starts for LilMoolah_77:

(Start: 5 @48185 has 18 MA's), (12, 48212), (30, 48428),

Gene: LittleShirley_85 Start: 49115, Stop: 49471, Start Num: 5

Candidate Starts for LittleShirley_85:

(Start: 5 @49115 has 18 MA's), (12, 49142), (30, 49358),

Gene: LunaStella_71 Start: 47826, Stop: 48179, Start Num: 5

Candidate Starts for LunaStella_71:

(Start: 5 @47826 has 18 MA's), (12, 47853), (23, 47985), (29, 48063), (30, 48066), (38, 48156),

Gene: MooMoo_84 Start: 49010, Stop: 49342, Start Num: 9

Candidate Starts for MooMoo_84:

(Start: 9 @49010 has 1 MA's), (13, 49025), (28, 49193), (32, 49235), (36, 49307),

Gene: Nivrat_75 Start: 48058, Stop: 48321, Start Num: 5

Candidate Starts for Nivrat_75:

(Start: 5 @48058 has 18 MA's), (12, 48085), (30, 48301),

Gene: OlympiaSaint_78 Start: 48472, Stop: 48825, Start Num: 5

Candidate Starts for OlympiaSaint_78:

(Start: 5 @48472 has 18 MA's), (12, 48499), (23, 48631), (29, 48709), (30, 48712), (38, 48802),

Gene: OwlsT2W_80 Start: 48157, Stop: 48510, Start Num: 5

Candidate Starts for OwlsT2W_80:

(Start: 5 @48157 has 18 MA's), (12, 48184), (23, 48316), (29, 48394), (30, 48397), (38, 48487),

Gene: Philus_81 Start: 50171, Stop: 50524, Start Num: 5

Candidate Starts for Philus_81:

(Start: 5 @50171 has 18 MA's), (12, 50198), (23, 50330), (29, 50408), (30, 50411), (38, 50501),

Gene: RedWattleHog_160 Start: 106582, Stop: 106965, Start Num: 3

Candidate Starts for RedWattleHog_160:

(Start: 3 @106582 has 2 MA's), (11, 106627), (12, 106633), (15, 106648), (20, 106720), (35, 106909),

Gene: Renaud18_88 Start: 49125, Stop: 49478, Start Num: 5

Candidate Starts for Renaud18_88:

(1, 49029), (Start: 5 @49125 has 18 MA's), (12, 49152), (23, 49284), (29, 49362), (30, 49365), (38, 49455),

Gene: ShroomBoi_79 Start: 48390, Stop: 48743, Start Num: 5

Candidate Starts for ShroomBoi_79:

(Start: 5 @48390 has 18 MA's), (12, 48417), (23, 48549), (29, 48627), (30, 48630), (38, 48720),

Gene: Spikelee_85 Start: 50696, Stop: 51049, Start Num: 5

Candidate Starts for Spikelee_85:

(Start: 5 @50696 has 18 MA's), (12, 50723), (23, 50855), (30, 50936), (37, 51020),

Gene: Starcevich_79 Start: 49396, Stop: 49752, Start Num: 5

Candidate Starts for Starcevich_79:

(Start: 5 @49396 has 18 MA's), (12, 49423), (30, 49639),

Gene: Stormageddon_161 Start: 107546, Stop: 107929, Start Num: 3

Candidate Starts for Stormageddon_161:

(Start: 3 @107546 has 2 MA's), (11, 107591), (12, 107597), (15, 107612), (20, 107684), (35, 107873),

Gene: TChen_80 Start: 49777, Stop: 50130, Start Num: 5

Candidate Starts for TChen_80:

(Start: 5 @49777 has 18 MA's), (12, 49804), (23, 49936), (29, 50014), (30, 50017), (38, 50107),

Gene: Totinger_82 Start: 48192, Stop: 48548, Start Num: 5

Candidate Starts for Totinger_82:

(Start: 5 @48192 has 18 MA's), (12, 48219), (30, 48435),

Gene: Typha_60 Start: 44340, Stop: 44672, Start Num: 10

Candidate Starts for Typha_60:

(Start: 10 @44340 has 2 MA's), (13, 44352), (15, 44364), (16, 44397), (17, 44412), (18, 44427), (24, 44484), (25, 44508), (34, 44613), (35, 44625), (39, 44649),