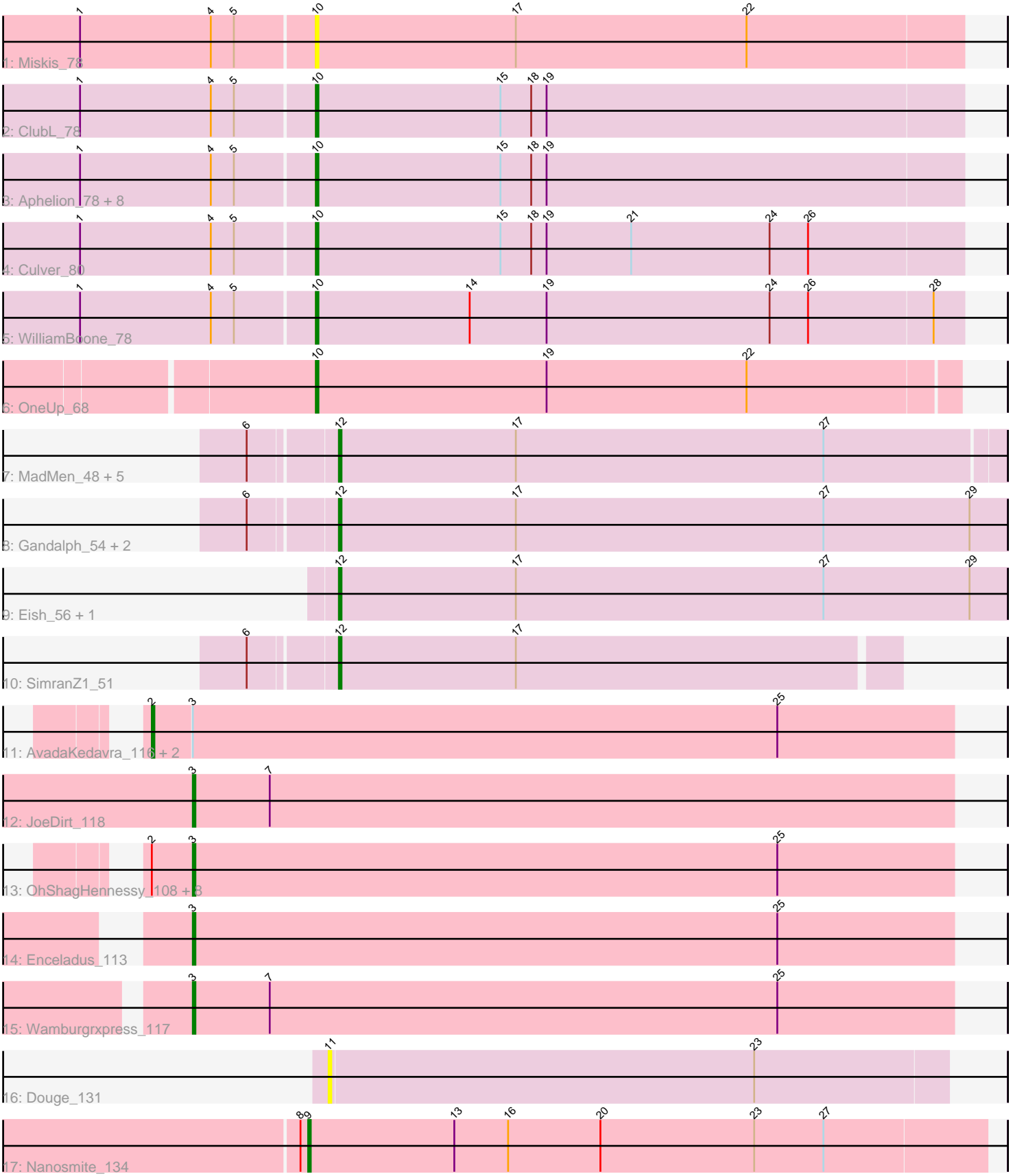


Pham 44792



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 44792 Report

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

Pham number 44792 has 43 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Miskis_78
- Track 2 : ClubL_78
- Track 3 : Aphelion_78, Toniann_79, Bachita_80, Smoothie_80, PhinkBoden_78, Cucurbita_80, Norvs_79, Engineer_80, Lozinak_79
- Track 4 : Culver_80
- Track 5 : WilliamBoone_78
- Track 6 : OneUp_68
- Track 7 : MadMen_48, TDanisky_58, Aubs_51, Sparkdehlily_58, Chuckly_53, Phasih_49
- Track 8 : Gandolph_54, Whatsapiecost_52, Polka14_50
- Track 9 : Eish_56, Estave1_54
- Track 10 : SimranZ1_51
- Track 11 : AvadaKedavra_116, Halena_116, Calm_123
- Track 12 : JoeDirt_118
- Track 13 : OhShagHennessy_108, UPIE_115, LeBron_115, Wyatt2_116, MAckerman_114, Appletree2_115, Zaria_120, Rose5_117, Acquire49_116
- Track 14 : Enceladus_113
- Track 15 : Wamburggrxpress_117
- Track 16 : Douge_131
- Track 17 : Nanosmite_134

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_78, Bachita_80, ClubL_78, Cucurbita_80, Culver_80, Engineer_80, Lozinak_79, Miskis_78, Norvs_79, OneUp_68, PhinkBoden_78, Smoothie_80, Toniann_79, WilliamBoone_78,

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

-

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

- Acquire49_116, Appletree2_115, Aubs_51, AvadaKedavra_116, Calm_123, Chuckly_53, Douge_131, Eish_56, Enceladus_113, Estave1_54, Gandolph_54, Halena_116, JoeDirt_118, LeBron_115, MAckerman_114, MadMen_48, Nanosmite_134, OhShagHennessy_108, Phasih_49, Polka14_50, Rose5_117, SimranZ1_51, Sparkdehlily_58, TDanisky_58, UPIE_115, Wamburgrxpress_117, Whatsapiecost_52, Wyatt2_116, Zaria_120,

Summary by start number:

Start 2:

- Found in 12 of 43 (27.9%) of genes in pham
- Manual Annotations of this start: 3 of 40
- Called 25.0% of time when present
- Phage (with cluster) where this start called: AvadaKedavra_116 (L1), Calm_123 (L1), Halena_116 (L1),

Start 3:

- Found in 15 of 43 (34.9%) of genes in pham
- Manual Annotations of this start: 11 of 40
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Acquire49_116 (L1), Appletree2_115 (L1), Enceladus_113 (L1), JoeDirt_118 (L1), LeBron_115 (L1), MAckerman_114 (L1), OhShagHennessy_108 (L1), Rose5_117 (L1), UPIE_115 (L1), Wamburgrxpress_117 (L1), Wyatt2_116 (L1), Zaria_120 (L1),

Start 9:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nanosmite_134 (M3),

Start 10:

- Found in 14 of 43 (32.6%) of genes in pham
- Manual Annotations of this start: 13 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion_78 (CQ1), Bachita_80 (CQ1), ClubL_78 (CQ1), Cucurbita_80 (CQ1), Culver_80 (CQ1), Engineer_80 (CQ1), Lozinak_79 (CQ1), Miskis_78 (CQ), Norvs_79 (CQ), OneUp_68 (CQ2), PhinkBoden_78 (CQ1), Smoothie_80 (CQ1), Toniann_79 (CQ1), WilliamBoone_78 (CQ1),

Start 11:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Douge_131 (L4),

Start 12:

- Found in 12 of 43 (27.9%) of genes in pham
- Manual Annotations of this start: 12 of 40
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Aubs_51 (F1), Chuckly_53 (F1), Eish_56 (F1), Estave1_54 (F1), Gandalph_54 (F1), MadMen_48 (F1), Phasih_49 (F1), Polka14_50 (F1), SimranZ1_51 (F1), Sparkdehlily_58 (F1), TDanisky_58 (F1), Whatsapiecost_52 (F1),

Summary by clusters:

There are 7 clusters represented in this pham: F1, L4, M3, L1, CQ2, CQ1, CQ,

Info for manual annotations of cluster CQ:

- Start number 10 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 10 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 10 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 12 times for cluster F1.

Info for manual annotations of cluster L1:

- Start number 2 was manually annotated 3 times for cluster L1.
- Start number 3 was manually annotated 11 times for cluster L1.

Info for manual annotations of cluster M3:

- Start number 9 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Acquire49_116 Start: 64009, Stop: 63713, Start Num: 3

Candidate Starts for Acquire49_116:

(Start: 2 @64024 has 3 MA's), (Start: 3 @64009 has 11 MA's), (25, 63781),

Gene: Aphelion_78 Start: 50130, Stop: 50381, Start Num: 10

Candidate Starts for Aphelion_78:

(1, 50040), (4, 50091), (5, 50100), (Start: 10 @50130 has 13 MA's), (15, 50202), (18, 50214), (19, 50220),

Gene: Appletree2_115 Start: 64050, Stop: 63754, Start Num: 3

Candidate Starts for Appletree2_115:

(Start: 2 @64065 has 3 MA's), (Start: 3 @64050 has 11 MA's), (25, 63822),

Gene: Aubs_51 Start: 36728, Stop: 36985, Start Num: 12

Candidate Starts for Aubs_51:

(6, 36698), (Start: 12 @36728 has 12 MA's), (17, 36797), (27, 36917),

Gene: AvadaKedavra_116 Start: 64138, Stop: 63827, Start Num: 2

Candidate Starts for AvadaKedavra_116:

(Start: 2 @64138 has 3 MA's), (Start: 3 @64123 has 11 MA's), (25, 63895),

Gene: Bachita_80 Start: 50555, Stop: 50806, Start Num: 10

Candidate Starts for Bachita_80:

(1, 50465), (4, 50516), (5, 50525), (Start: 10 @50555 has 13 MA's), (15, 50627), (18, 50639), (19, 50645),

Gene: Calm_123 Start: 65239, Stop: 64928, Start Num: 2

Candidate Starts for Calm_123:

(Start: 2 @65239 has 3 MA's), (Start: 3 @65224 has 11 MA's), (25, 64996),

Gene: Chuckly_53 Start: 37305, Stop: 37562, Start Num: 12

Candidate Starts for Chuckly_53:

(6, 37275), (Start: 12 @37305 has 12 MA's), (17, 37374), (27, 37494),

Gene: ClubL_78 Start: 49243, Stop: 49494, Start Num: 10

Candidate Starts for ClubL_78:

(1, 49153), (4, 49204), (5, 49213), (Start: 10 @49243 has 13 MA's), (15, 49315), (18, 49327), (19, 49333),

Gene: Cucurbita_80 Start: 51062, Stop: 51313, Start Num: 10

Candidate Starts for Cucurbita_80:

(1, 50972), (4, 51023), (5, 51032), (Start: 10 @51062 has 13 MA's), (15, 51134), (18, 51146), (19, 51152),

Gene: Culver_80 Start: 49166, Stop: 49417, Start Num: 10

Candidate Starts for Culver_80:

(1, 49076), (4, 49127), (5, 49136), (Start: 10 @49166 has 13 MA's), (15, 49238), (18, 49250), (19, 49256), (21, 49289), (24, 49343), (26, 49358),

Gene: Douge_131 Start: 68346, Stop: 68107, Start Num: 11

Candidate Starts for Douge_131:

(11, 68346), (23, 68181),

Gene: Eish_56 Start: 38100, Stop: 38360, Start Num: 12

Candidate Starts for Eish_56:

(Start: 12 @38100 has 12 MA's), (17, 38169), (27, 38289), (29, 38346),

Gene: Enceladus_113 Start: 63675, Stop: 63379, Start Num: 3

Candidate Starts for Enceladus_113:

(Start: 3 @63675 has 11 MA's), (25, 63447),

Gene: Engineer_80 Start: 50528, Stop: 50779, Start Num: 10

Candidate Starts for Engineer_80:

(1, 50438), (4, 50489), (5, 50498), (Start: 10 @50528 has 13 MA's), (15, 50600), (18, 50612), (19, 50618),

Gene: Estave1_54 Start: 37464, Stop: 37724, Start Num: 12

Candidate Starts for Estave1_54:

(Start: 12 @37464 has 12 MA's), (17, 37533), (27, 37653), (29, 37710),

Gene: Gandolph_54 Start: 37162, Stop: 37422, Start Num: 12

Candidate Starts for Gandolph_54:

(6, 37132), (Start: 12 @37162 has 12 MA's), (17, 37231), (27, 37351), (29, 37408),

Gene: Halena_116 Start: 64012, Stop: 63701, Start Num: 2
Candidate Starts for Halena_116:
(Start: 2 @64012 has 3 MA's), (Start: 3 @63997 has 11 MA's), (25, 63769),

Gene: JoeDirt_118 Start: 65207, Stop: 64911, Start Num: 3
Candidate Starts for JoeDirt_118:
(Start: 3 @65207 has 11 MA's), (7, 65177),

Gene: LeBron_115 Start: 63613, Stop: 63317, Start Num: 3
Candidate Starts for LeBron_115:
(Start: 2 @63628 has 3 MA's), (Start: 3 @63613 has 11 MA's), (25, 63385),

Gene: Lozinak_79 Start: 50366, Stop: 50617, Start Num: 10
Candidate Starts for Lozinak_79:
(1, 50276), (4, 50327), (5, 50336), (Start: 10 @50366 has 13 MA's), (15, 50438), (18, 50450), (19, 50456),

Gene: MAckerman_114 Start: 63990, Stop: 63694, Start Num: 3
Candidate Starts for MAckerman_114:
(Start: 2 @64005 has 3 MA's), (Start: 3 @63990 has 11 MA's), (25, 63762),

Gene: MadMen_48 Start: 36375, Stop: 36632, Start Num: 12
Candidate Starts for MadMen_48:
(6, 36345), (Start: 12 @36375 has 12 MA's), (17, 36444), (27, 36564),

Gene: Miskis_78 Start: 48839, Stop: 49090, Start Num: 10
Candidate Starts for Miskis_78:
(1, 48749), (4, 48800), (5, 48809), (Start: 10 @48839 has 13 MA's), (17, 48917), (22, 49007),

Gene: Nanosmite_134 Start: 66616, Stop: 66879, Start Num: 9
Candidate Starts for Nanosmite_134:
(8, 66613), (Start: 9 @66616 has 1 MA's), (13, 66673), (16, 66694), (20, 66730), (23, 66790), (27, 66817),

Gene: Norvs_79 Start: 49775, Stop: 50026, Start Num: 10
Candidate Starts for Norvs_79:
(1, 49685), (4, 49736), (5, 49745), (Start: 10 @49775 has 13 MA's), (15, 49847), (18, 49859), (19, 49865),

Gene: OhShagHennessy_108 Start: 62775, Stop: 62479, Start Num: 3
Candidate Starts for OhShagHennessy_108:
(Start: 2 @62790 has 3 MA's), (Start: 3 @62775 has 11 MA's), (25, 62547),

Gene: OneUp_68 Start: 47595, Stop: 47843, Start Num: 10
Candidate Starts for OneUp_68:
(Start: 10 @47595 has 13 MA's), (19, 47685), (22, 47763),

Gene: Phasih_49 Start: 37199, Stop: 37456, Start Num: 12
Candidate Starts for Phasih_49:
(6, 37169), (Start: 12 @37199 has 12 MA's), (17, 37268), (27, 37388),

Gene: PhinkBoden_78 Start: 50156, Stop: 50407, Start Num: 10

Candidate Starts for PhinkBoden_78:

(1, 50066), (4, 50117), (5, 50126), (Start: 10 @50156 has 13 MA's), (15, 50228), (18, 50240), (19, 50246),

Gene: Polka14_50 Start: 36529, Stop: 36789, Start Num: 12

Candidate Starts for Polka14_50:

(6, 36499), (Start: 12 @36529 has 12 MA's), (17, 36598), (27, 36718), (29, 36775),

Gene: Rose5_117 Start: 64287, Stop: 63991, Start Num: 3

Candidate Starts for Rose5_117:

(Start: 2 @64302 has 3 MA's), (Start: 3 @64287 has 11 MA's), (25, 64059),

Gene: SimranZ1_51 Start: 36301, Stop: 36516, Start Num: 12

Candidate Starts for SimranZ1_51:

(6, 36271), (Start: 12 @36301 has 12 MA's), (17, 36370),

Gene: Smoothie_80 Start: 50366, Stop: 50617, Start Num: 10

Candidate Starts for Smoothie_80:

(1, 50276), (4, 50327), (5, 50336), (Start: 10 @50366 has 13 MA's), (15, 50438), (18, 50450), (19, 50456),

Gene: Sparkdehlily_58 Start: 38303, Stop: 38560, Start Num: 12

Candidate Starts for Sparkdehlily_58:

(6, 38273), (Start: 12 @38303 has 12 MA's), (17, 38372), (27, 38492),

Gene: TDanisky_58 Start: 38303, Stop: 38560, Start Num: 12

Candidate Starts for TDanisky_58:

(6, 38273), (Start: 12 @38303 has 12 MA's), (17, 38372), (27, 38492),

Gene: Toniann_79 Start: 49718, Stop: 49969, Start Num: 10

Candidate Starts for Toniann_79:

(1, 49628), (4, 49679), (5, 49688), (Start: 10 @49718 has 13 MA's), (15, 49790), (18, 49802), (19, 49808),

Gene: UPIE_115 Start: 63954, Stop: 63658, Start Num: 3

Candidate Starts for UPIE_115:

(Start: 2 @63969 has 3 MA's), (Start: 3 @63954 has 11 MA's), (25, 63726),

Gene: Wamburgexpress_117 Start: 64608, Stop: 64312, Start Num: 3

Candidate Starts for Wamburgexpress_117:

(Start: 3 @64608 has 11 MA's), (7, 64578), (25, 64380),

Gene: Whatsapiecost_52 Start: 36436, Stop: 36696, Start Num: 12

Candidate Starts for Whatsapiecost_52:

(6, 36406), (Start: 12 @36436 has 12 MA's), (17, 36505), (27, 36625), (29, 36682),

Gene: WilliamBoone_78 Start: 48466, Stop: 48717, Start Num: 10

Candidate Starts for WilliamBoone_78:

(1, 48376), (4, 48427), (5, 48436), (Start: 10 @48466 has 13 MA's), (14, 48526), (19, 48556), (24, 48643), (26, 48658), (28, 48706),

Gene: Wyatt2_116 Start: 64380, Stop: 64084, Start Num: 3

Candidate Starts for Wyatt2_116:

(Start: 2 @64395 has 3 MA's), (Start: 3 @64380 has 11 MA's), (25, 64152),

Gene: Zaria_120 Start: 64689, Stop: 64393, Start Num: 3

Candidate Starts for Zaria_120:

(Start: 2 @64704 has 3 MA's), (Start: 3 @64689 has 11 MA's), (25, 64461),