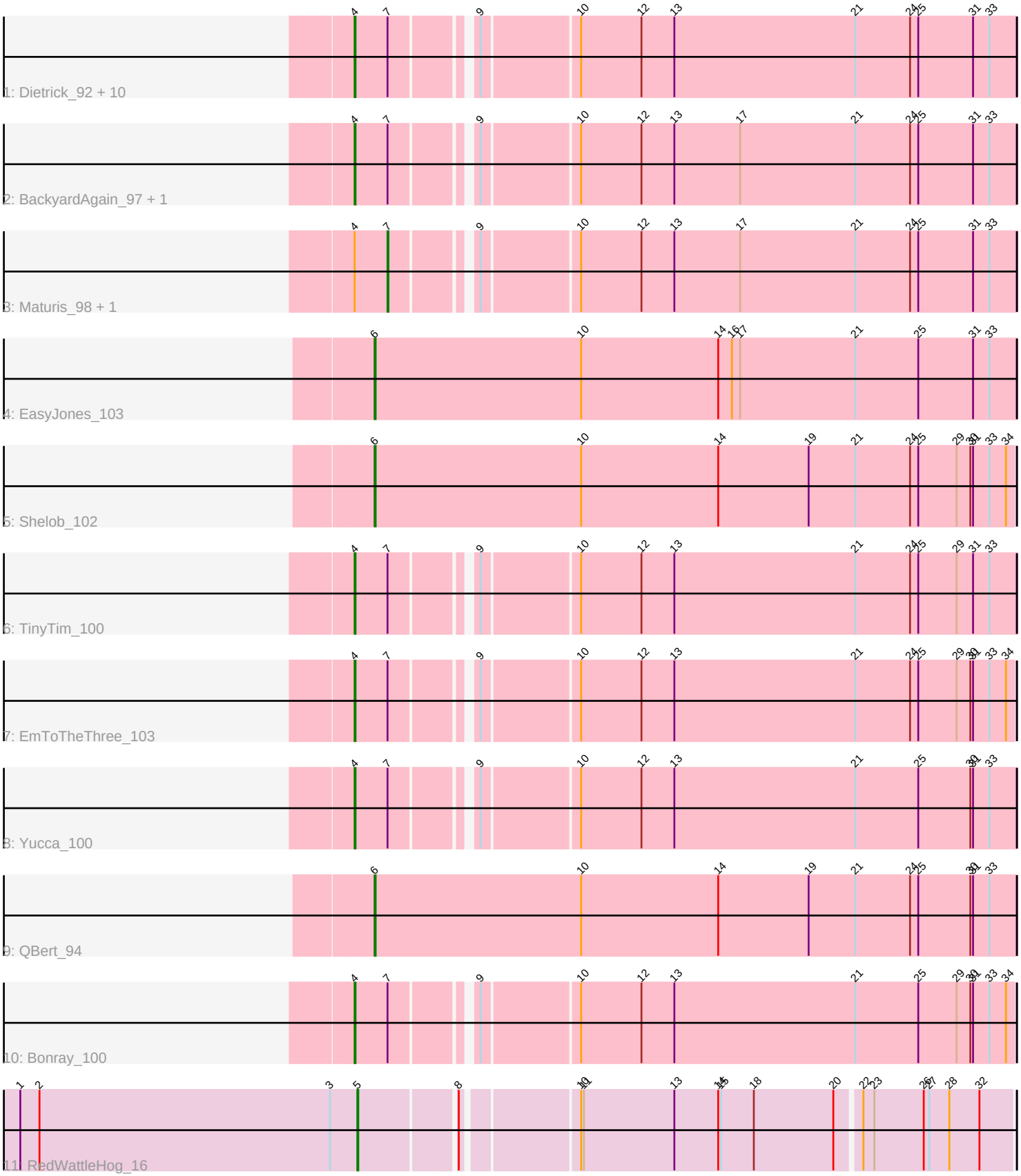
Pham 282460


1: Dietrick_92 + 10
2: BackyardAgain_97 + 1
3: Maturis_98 + 1
4: EasyJones_103
5: Shelob_102
6: TinyTim_100
7: EmToTheThree_103
8: Yucca_100
9: QBert_94
10: Bonray_100
11: RedWattleHog_16

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 282460 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282460 has 23 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Dietrick_92, Ewok_101, Napoleon13_96, Melpomini_94, Bread_100, Stubby_93, Ava3_101, Burrough_100, JulietS_94, Babyland_101, EmmaElysia_100
• Track 2 : BackyardAgain_97, Koguma_97
• Track 3 : Maturis_98, Grungle_88
• Track 4 : EasyJones_103
• Track 5 : Shelob_102
• Track 6 : TinyTim_100
• Track 7 : EmToTheThree_103
• Track 8 : Yucca_100
• Track 9 : QBert_94
• Track 10 : Bonray_100
• Track 11 : RedWattleHog_16

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

The start number called the most often in the published annotations is 4, it was called in 17 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ava3_101, Babyland_101, BackyardAgain_97, Bonray_100, Bread_100, Burrough_100, Dietrick_92, EmToTheThree_103, EmmaElysia_100, Ewok_101, JulietS_94, Koguma_97, Melpomini_94, Napoleon13_96, Stubby_93, TinyTim_100, Yucca_100,

Genes that have the "Most Annotated" start but do not call it:
• Grungle_88, Maturis_98,

Genes that do not have the "Most Annotated" start:
• EasyJones_103, QBert_94, RedWattleHog_16, Shelob_102,

Summary by start number:

Start 4:
• Found in 19 of 23 (82.6%) of genes in pham

• Manual Annotations of this start: 17 of 22
• Called 89.5% of time when present
• Phage (with cluster) where this start called: Ava3_101 (C1), Babyland_101 (C1), BackyardAgain_97 (C1), Bonray_100 (C1), Bread_100 (C1), Burrough_100 (C1), Dietrick_92 (C1), EmToTheThree_103 (C1), EmmaElysia_100 (C1), Ewok_101 (C1), JulietS_94 (C1), Koguma_97 (C1), Melpomini_94 (C1), Napoleon13_96 (C1), Stubby_93 (C1), TinyTim_100 (C1), Yucca_100 (C1),

Start 5:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_16 (DX),

Start 6:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 3 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EasyJones_103 (C1), QBert_94 (C1), Shelob_102 (C1),

Start 7:
• Found in 19 of 23 (82.6%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 10.5% of time when present
• Phage (with cluster) where this start called: Grungle_88 (C1), Maturis_98 (C1),

Summary by clusters:

There are 2 clusters represented in this pham: C1, DX,

Info for manual annotations of cluster C1:
•Start number 4 was manually annotated 17 times for cluster C1.
•Start number 6 was manually annotated 3 times for cluster C1.
•Start number 7 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster DX:
•Start number 5 was manually annotated 1 time for cluster DX.

Gene Information:

Gene: Ava3_101 Start: 50524, Stop: 51213, Start Num: 4
Candidate Starts for Ava3_101:
(Start: 4 @50524 has 17 MA's), (Start: 7 @50560 has 1 MA's), (9, 50638), (10, 50737), (12, 50803), (13, 50839), (21, 51037), (24, 51097), (25, 51106), (31, 51166), (33, 51184),

Gene: Babyland_101 Start: 49697, Stop: 50386, Start Num: 4
Candidate Starts for Babyland_101:
(Start: 4 @49697 has 17 MA's), (Start: 7 @49733 has 1 MA's), (9, 49811), (10, 49910), (12, 49976), (13, 50012), (21, 50210), (24, 50270), (25, 50279), (31, 50339), (33, 50357),

Gene: BackyardAgain_97 Start: 49527, Stop: 50216, Start Num: 4
Candidate Starts for BackyardAgain_97:
(Start: 4 @49527 has 17 MA's), (Start: 7 @49563 has 1 MA's), (9, 49641), (10, 49740), (12, 49806), (13, 49842), (17, 49914), (21, 50040), (24, 50100), (25, 50109), (31, 50169), (33, 50187),

Gene: Bonray_100 Start: 50950, Stop: 51636, Start Num: 4
Candidate Starts for Bonray_100:
(Start: 4 @50950 has 17 MA's), (Start: 7 @50986 has 1 MA's), (9, 51064), (10, 51163), (12, 51229), (13, 51265), (21, 51463), (25, 51532), (29, 51574), (30, 51589), (31, 51592), (33, 51610), (34, 51628),

Gene: Bread_100 Start: 50610, Stop: 51299, Start Num: 4
Candidate Starts for Bread_100:
(Start: 4 @50610 has 17 MA's), (Start: 7 @50646 has 1 MA's), (9, 50724), (10, 50823), (12, 50889), (13, 50925), (21, 51123), (24, 51183), (25, 51192), (31, 51252), (33, 51270),

Gene: Burrough_100 Start: 51109, Stop: 51798, Start Num: 4
Candidate Starts for Burrough_100:
(Start: 4 @51109 has 17 MA's), (Start: 7 @51145 has 1 MA's), (9, 51223), (10, 51322), (12, 51388), (13, 51424), (21, 51622), (24, 51682), (25, 51691), (31, 51751), (33, 51769),

Gene: Dietrick_92 Start: 48775, Stop: 49464, Start Num: 4
Candidate Starts for Dietrick_92:
(Start: 4 @48775 has 17 MA's), (Start: 7 @48811 has 1 MA's), (9, 48889), (10, 48988), (12, 49054), (13, 49090), (21, 49288), (24, 49348), (25, 49357), (31, 49417), (33, 49435),

Gene: EasyJones_103 Start: 50149, Stop: 50850, Start Num: 6
Candidate Starts for EasyJones_103:
(Start: 6 @50149 has 3 MA's), (10, 50374), (14, 50524), (16, 50539), (17, 50548), (21, 50674), (25, 50743), (31, 50803), (33, 50821),

Gene: EmToTheThree_103 Start: 52294, Stop: 52980, Start Num: 4
Candidate Starts for EmToTheThree_103:
(Start: 4 @52294 has 17 MA's), (Start: 7 @52330 has 1 MA's), (9, 52408), (10, 52507), (12, 52573), (13, 52609), (21, 52807), (24, 52867), (25, 52876), (29, 52918), (30, 52933), (31, 52936), (33, 52954), (34, 52972),

Gene: EmmaElysia_100 Start: 49825, Stop: 50514, Start Num: 4
Candidate Starts for EmmaElysia_100:
(Start: 4 @49825 has 17 MA's), (Start: 7 @49861 has 1 MA's), (9, 49939), (10, 50038), (12, 50104), (13, 50140), (21, 50338), (24, 50398), (25, 50407), (31, 50467), (33, 50485),

Gene: Ewok_101 Start: 50470, Stop: 51159, Start Num: 4
Candidate Starts for Ewok_101:
(Start: 4 @50470 has 17 MA's), (Start: 7 @50506 has 1 MA's), (9, 50584), (10, 50683), (12, 50749), (13, 50785), (21, 50983), (24, 51043), (25, 51052), (31, 51112), (33, 51130),

Gene: Grungle_88 Start: 47460, Stop: 48113, Start Num: 7
Candidate Starts for Grungle_88:
(Start: 4 @47424 has 17 MA's), (Start: 7 @47460 has 1 MA's), (9, 47538), (10, 47637), (12, 47703), (13, 47739), (17, 47811), (21, 47937), (24, 47997), (25, 48006), (31, 48066), (33, 48084),

Gene: JulietS_94 Start: 48305, Stop: 48994, Start Num: 4
Candidate Starts for JulietS_94:

(Start: 4 @48305 has 17 MA's), (Start: 7 @48341 has 1 MA's), (9, 48419), (10, 48518), (12, 48584), (13, 48620), (21, 48818), (24, 48878), (25, 48887), (31, 48947), (33, 48965),

Gene: Koguma_97 Start: 48525, Stop: 49214, Start Num: 4
Candidate Starts for Koguma_97:
(Start: 4 @48525 has 17 MA's), (Start: 7 @48561 has 1 MA's), (9, 48639), (10, 48738), (12, 48804), (13, 48840), (17, 48912), (21, 49038), (24, 49098), (25, 49107), (31, 49167), (33, 49185),

Gene: Maturis_98 Start: 50754, Stop: 51407, Start Num: 7
Candidate Starts for Maturis_98:
(Start: 4 @50718 has 17 MA's), (Start: 7 @50754 has 1 MA's), (9, 50832), (10, 50931), (12, 50997), (13, 51033), (17, 51105), (21, 51231), (24, 51291), (25, 51300), (31, 51360), (33, 51378),

Gene: Melpomini_94 Start: 48216, Stop: 48905, Start Num: 4
Candidate Starts for Melpomini_94:
(Start: 4 @48216 has 17 MA's), (Start: 7 @48252 has 1 MA's), (9, 48330), (10, 48429), (12, 48495), (13, 48531), (21, 48729), (24, 48789), (25, 48798), (31, 48858), (33, 48876),

Gene: Napoleon13_96 Start: 48654, Stop: 49343, Start Num: 4
Candidate Starts for Napoleon13_96:
(Start: 4 @48654 has 17 MA's), (Start: 7 @48690 has 1 MA's), (9, 48768), (10, 48867), (12, 48933), (13, 48969), (21, 49167), (24, 49227), (25, 49236), (31, 49296), (33, 49314),

Gene: QBert_94 Start: 50142, Stop: 50843, Start Num: 6
Candidate Starts for QBert_94:
(Start: 6 @50142 has 3 MA's), (10, 50367), (14, 50517), (19, 50616), (21, 50667), (24, 50727), (25, 50736), (30, 50793), (31, 50796), (33, 50814),

Gene: RedWattleHog_16 Start: 20074, Stop: 20742, Start Num: 5
Candidate Starts for RedWattleHog_16:
(1, 19705), (2, 19726), (3, 20044), (Start: 5 @20074 has 1 MA's), (8, 20170), (10, 20284), (11, 20287), (13, 20386), (14, 20434), (15, 20437), (18, 20473), (20, 20560), (22, 20584), (23, 20596), (26, 20650), (27, 20656), (28, 20677), (32, 20707),

Gene: Shelob_102 Start: 51853, Stop: 52551, Start Num: 6
Candidate Starts for Shelob_102:
(Start: 6 @51853 has 3 MA's), (10, 52078), (14, 52228), (19, 52327), (21, 52378), (24, 52438), (25, 52447), (29, 52489), (30, 52504), (31, 52507), (33, 52525), (34, 52543),

Gene: Stubby_93 Start: 49286, Stop: 49975, Start Num: 4
Candidate Starts for Stubby_93:
(Start: 4 @49286 has 17 MA's), (Start: 7 @49322 has 1 MA's), (9, 49400), (10, 49499), (12, 49565), (13, 49601), (21, 49799), (24, 49859), (25, 49868), (31, 49928), (33, 49946),

Gene: TinyTim_100 Start: 50843, Stop: 51532, Start Num: 4
Candidate Starts for TinyTim_100:
(Start: 4 @50843 has 17 MA's), (Start: 7 @50879 has 1 MA's), (9, 50957), (10, 51056), (12, 51122), (13, 51158), (21, 51356), (24, 51416), (25, 51425), (29, 51467), (31, 51485), (33, 51503),

Gene: Yucca_100 Start: 50762, Stop: 51451, Start Num: 4
Candidate Starts for Yucca_100:
(Start: 4 @50762 has 17 MA's), (Start: 7 @50798 has 1 MA's), (9, 50876), (10, 50975), (12, 51041), (13, 51077), (21, 51275), (25, 51344), (30, 51401), (31, 51404), (33, 51422),