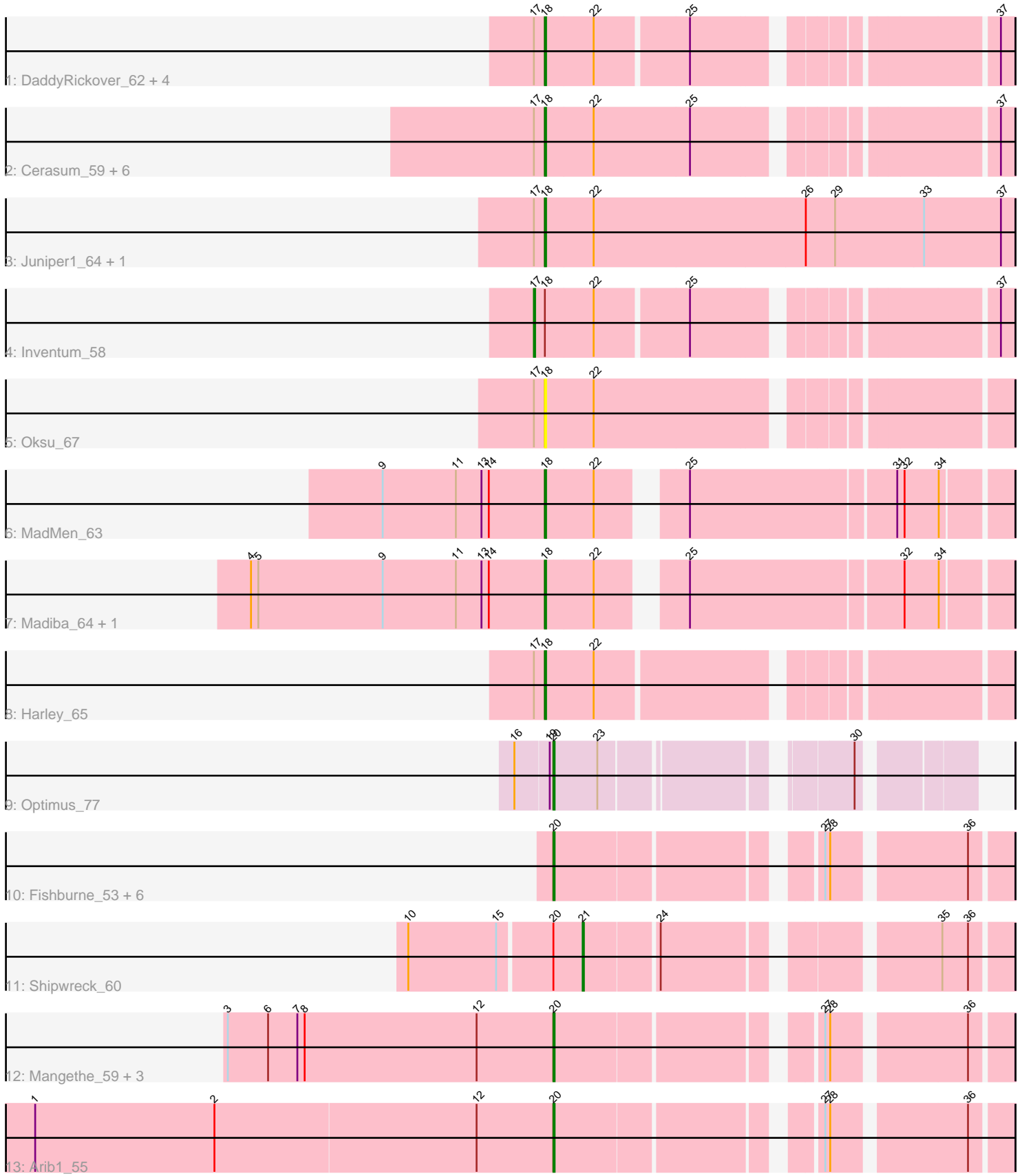


Pham 159320



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 159320 Report

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

Pham number 159320 has 34 members, 6 are drafts.

Phages represented in each track:

- Track 1 : DaddyRickover_62, Dorothy_61, Sassafras_61, RedBird_61, Aubs_63
- Track 2 : Cerasum_59, Coco12_62, Velveteen_58, BigPhil_59, Kingsley_60, IbOuu_64, Sarma624_61
- Track 3 : Juniper1_64, Estave1_66
- Track 4 : Inventum_58
- Track 5 : Oksu_67
- Track 6 : MadMen_63
- Track 7 : Madiba_64, Mova_67
- Track 8 : Harley_65
- Track 9 : Optimus_77
- Track 10 : Fishburne_53, Langerak_54, Polkaroo_56, Kari_53, Bartholomew_53, FirstPlacePfu_55, Venti_54
- Track 11 : Shipwreck_60
- Track 12 : Mangethe_59, Zilizebeth_59, Majeke_59, Phegasus_59
- Track 13 : Arib1_55

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

The start number called the most often in the published annotations is 18, it was called in 15 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aubs_63, BigPhil_59, Cerasum_59, Coco12_62, DaddyRickover_62, Dorothy_61, Estave1_66, Harley_65, IbOuu_64, Juniper1_64, Kingsley_60, MadMen_63, Madiba_64, Mova_67, Oksu_67, RedBird_61, Sarma624_61, Sassafras_61, Velveteen_58,

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

- Inventum_58,

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

- Arib1_55, Bartholomew_53, FirstPlacePfu_55, Fishburne_53, Kari_53, Langerak_54, Majeke_59, Mangethe_59, Optimus_77, Phegasus_59, Polkaroo_56, Shipwreck_60, Venti_54, Zilizebeth_59,

Summary by start number:

Start 17:

- Found in 17 of 34 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Inventum_58 (F1),

Start 18:

- Found in 20 of 34 (58.8%) of genes in pham
- Manual Annotations of this start: 15 of 28
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Aubs_63 (F1), BigPhil_59 (F1), Cerasum_59 (F1), Coco12_62 (F1), DaddyRickover_62 (F1), Dorothy_61 (F1), Estave1_66 (F1), Harley_65 (F1), IbOuu_64 (F1), Juniper1_64 (F1), Kingsley_60 (F1), MadMen_63 (F1), Madiba_64 (F1), Mova_67 (F1), Oksu_67 (F1), RedBird_61 (F1), Sarma624_61 (F1), Sassafras_61 (F1), Velveteen_58 (F1),

Start 20:

- Found in 14 of 34 (41.2%) of genes in pham
- Manual Annotations of this start: 11 of 28
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Arib1_55 (P1), Bartholomew_53 (P1), FirstPlacePfu_55 (P1), Fishburne_53 (P1), Kari_53 (P1), Langerak_54 (P1), Majeke_59 (P1), Mangethe_59 (P1), Optimus_77 (J), Phegasus_59 (P1), Polkaroo_56 (P1), Venti_54 (P1), Zilizebeth_59 (P1),

Start 21:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shipwreck_60 (P1),

Summary by clusters:

There are 3 clusters represented in this pham: F1, J, P1,

Info for manual annotations of cluster F1:

- Start number 17 was manually annotated 1 time for cluster F1.
- Start number 18 was manually annotated 15 times for cluster F1.

Info for manual annotations of cluster J:

- Start number 20 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster P1:

- Start number 20 was manually annotated 10 times for cluster P1.
- Start number 21 was manually annotated 1 time for cluster P1.

Gene Information:

Gene: Arib1_55 Start: 36318, Stop: 36641, Start Num: 20
Candidate Starts for Arib1_55:
(1, 35895), (2, 36042), (12, 36255), (Start: 20 @36318 has 11 MA's), (27, 36507), (28, 36510), (36, 36609),

Gene: Aubs_63 Start: 41384, Stop: 41719, Start Num: 18
Candidate Starts for Aubs_63:
(Start: 17 @41375 has 1 MA's), (Start: 18 @41384 has 15 MA's), (22, 41423), (25, 41495), (37, 41708),

Gene: Bartholomew_53 Start: 36260, Stop: 36583, Start Num: 20
Candidate Starts for Bartholomew_53:
(Start: 20 @36260 has 11 MA's), (27, 36449), (28, 36452), (36, 36551),

Gene: BigPhil_59 Start: 37375, Stop: 37716, Start Num: 18
Candidate Starts for BigPhil_59:
(Start: 17 @37366 has 1 MA's), (Start: 18 @37375 has 15 MA's), (22, 37414), (25, 37492), (37, 37705),

Gene: Cerasum_59 Start: 37393, Stop: 37734, Start Num: 18
Candidate Starts for Cerasum_59:
(Start: 17 @37384 has 1 MA's), (Start: 18 @37393 has 15 MA's), (22, 37432), (25, 37510), (37, 37723),

Gene: Coco12_62 Start: 41450, Stop: 41791, Start Num: 18
Candidate Starts for Coco12_62:
(Start: 17 @41441 has 1 MA's), (Start: 18 @41450 has 15 MA's), (22, 41489), (25, 41567), (37, 41780),

Gene: DaddyRickover_62 Start: 41176, Stop: 41511, Start Num: 18
Candidate Starts for DaddyRickover_62:
(Start: 17 @41167 has 1 MA's), (Start: 18 @41176 has 15 MA's), (22, 41215), (25, 41287), (37, 41500),

Gene: Dorothy_61 Start: 40350, Stop: 40685, Start Num: 18
Candidate Starts for Dorothy_61:
(Start: 17 @40341 has 1 MA's), (Start: 18 @40350 has 15 MA's), (22, 40389), (25, 40461), (37, 40674),

Gene: Estave1_66 Start: 42262, Stop: 42642, Start Num: 18
Candidate Starts for Estave1_66:
(Start: 17 @42253 has 1 MA's), (Start: 18 @42262 has 15 MA's), (22, 42301), (26, 42472), (29, 42496), (33, 42568), (37, 42631),

Gene: FirstPlacePfu_55 Start: 36292, Stop: 36615, Start Num: 20
Candidate Starts for FirstPlacePfu_55:
(Start: 20 @36292 has 11 MA's), (27, 36481), (28, 36484), (36, 36583),

Gene: Fishburne_53 Start: 36260, Stop: 36583, Start Num: 20
Candidate Starts for Fishburne_53:
(Start: 20 @36260 has 11 MA's), (27, 36449), (28, 36452), (36, 36551),

Gene: Harley_65 Start: 42034, Stop: 42369, Start Num: 18

Candidate Starts for Harley_65:

(Start: 17 @42025 has 1 MA's), (Start: 18 @42034 has 15 MA's), (22, 42073),

Gene: lbOuu_64 Start: 41437, Stop: 41772, Start Num: 18

Candidate Starts for lbOuu_64:

(Start: 17 @41428 has 1 MA's), (Start: 18 @41437 has 15 MA's), (22, 41476), (25, 41548), (37, 41761),

Gene: Inventum_58 Start: 40539, Stop: 40883, Start Num: 17

Candidate Starts for Inventum_58:

(Start: 17 @40539 has 1 MA's), (Start: 18 @40548 has 15 MA's), (22, 40587), (25, 40659), (37, 40872),

Gene: Juniper1_64 Start: 41298, Stop: 41678, Start Num: 18

Candidate Starts for Juniper1_64:

(Start: 17 @41289 has 1 MA's), (Start: 18 @41298 has 15 MA's), (22, 41337), (26, 41508), (29, 41532), (33, 41604), (37, 41667),

Gene: Kari_53 Start: 36257, Stop: 36580, Start Num: 20

Candidate Starts for Kari_53:

(Start: 20 @36257 has 11 MA's), (27, 36446), (28, 36449), (36, 36548),

Gene: Kingsley_60 Start: 40183, Stop: 40524, Start Num: 18

Candidate Starts for Kingsley_60:

(Start: 17 @40174 has 1 MA's), (Start: 18 @40183 has 15 MA's), (22, 40222), (25, 40300), (37, 40513),

Gene: Langerak_54 Start: 36276, Stop: 36599, Start Num: 20

Candidate Starts for Langerak_54:

(Start: 20 @36276 has 11 MA's), (27, 36465), (28, 36468), (36, 36567),

Gene: MadMen_63 Start: 41307, Stop: 41648, Start Num: 18

Candidate Starts for MadMen_63:

(9, 41175), (11, 41235), (13, 41256), (14, 41262), (Start: 18 @41307 has 15 MA's), (22, 41346), (25, 41400), (31, 41562), (32, 41568), (34, 41595),

Gene: Madiba_64 Start: 40812, Stop: 41153, Start Num: 18

Candidate Starts for Madiba_64:

(4, 40572), (5, 40578), (9, 40680), (11, 40740), (13, 40761), (14, 40767), (Start: 18 @40812 has 15 MA's), (22, 40851), (25, 40905), (32, 41073), (34, 41100),

Gene: Majeke_59 Start: 37835, Stop: 38158, Start Num: 20

Candidate Starts for Majeke_59:

(3, 37568), (6, 37601), (7, 37625), (8, 37631), (12, 37772), (Start: 20 @37835 has 11 MA's), (27, 38024), (28, 38027), (36, 38126),

Gene: Mangethe_59 Start: 37835, Stop: 38158, Start Num: 20

Candidate Starts for Mangethe_59:

(3, 37568), (6, 37601), (7, 37625), (8, 37631), (12, 37772), (Start: 20 @37835 has 11 MA's), (27, 38024), (28, 38027), (36, 38126),

Gene: Mova_67 Start: 41316, Stop: 41657, Start Num: 18

Candidate Starts for Mova_67:

(4, 41076), (5, 41082), (9, 41184), (11, 41244), (13, 41265), (14, 41271), (Start: 18 @41316 has 15 MA's), (22, 41355), (25, 41409), (32, 41577), (34, 41604),

Gene: Oksu_67 Start: 43933, Stop: 44274, Start Num: 18

Candidate Starts for Oksu_67:

(Start: 17 @43924 has 1 MA's), (Start: 18 @43933 has 15 MA's), (22, 43972),

Gene: Optimus_77 Start: 51627, Stop: 51340, Start Num: 20

Candidate Starts for Optimus_77:

(16, 51657), (19, 51630), (Start: 20 @51627 has 11 MA's), (23, 51591), (30, 51420),

Gene: Phegasus_59 Start: 37802, Stop: 38125, Start Num: 20

Candidate Starts for Phegasus_59:

(3, 37535), (6, 37568), (7, 37592), (8, 37598), (12, 37739), (Start: 20 @37802 has 11 MA's), (27, 37991), (28, 37994), (36, 38093),

Gene: Polkaroo_56 Start: 37599, Stop: 37922, Start Num: 20

Candidate Starts for Polkaroo_56:

(Start: 20 @37599 has 11 MA's), (27, 37788), (28, 37791), (36, 37890),

Gene: RedBird_61 Start: 40229, Stop: 40564, Start Num: 18

Candidate Starts for RedBird_61:

(Start: 17 @40220 has 1 MA's), (Start: 18 @40229 has 15 MA's), (22, 40268), (25, 40340), (37, 40553),

Gene: Sarma624_61 Start: 37375, Stop: 37716, Start Num: 18

Candidate Starts for Sarma624_61:

(Start: 17 @37366 has 1 MA's), (Start: 18 @37375 has 15 MA's), (22, 37414), (25, 37492), (37, 37705),

Gene: Sassafras_61 Start: 40547, Stop: 40882, Start Num: 18

Candidate Starts for Sassafras_61:

(Start: 17 @40538 has 1 MA's), (Start: 18 @40547 has 15 MA's), (22, 40586), (25, 40658), (37, 40871),

Gene: Shipwreck_60 Start: 40146, Stop: 40448, Start Num: 21

Candidate Starts for Shipwreck_60:

(10, 40008), (15, 40080), (Start: 20 @40122 has 11 MA's), (Start: 21 @40146 has 1 MA's), (24, 40203), (35, 40395), (36, 40416),

Gene: Velveteen_58 Start: 37375, Stop: 37716, Start Num: 18

Candidate Starts for Velveteen_58:

(Start: 17 @37366 has 1 MA's), (Start: 18 @37375 has 15 MA's), (22, 37414), (25, 37492), (37, 37705),

Gene: Venti_54 Start: 36260, Stop: 36583, Start Num: 20

Candidate Starts for Venti_54:

(Start: 20 @36260 has 11 MA's), (27, 36449), (28, 36452), (36, 36551),

Gene: Zilizebeth_59 Start: 37826, Stop: 38149, Start Num: 20

Candidate Starts for Zilizebeth_59:

(3, 37559), (6, 37592), (7, 37616), (8, 37622), (12, 37763), (Start: 20 @37826 has 11 MA's), (27, 38015), (28, 38018), (36, 38117),

