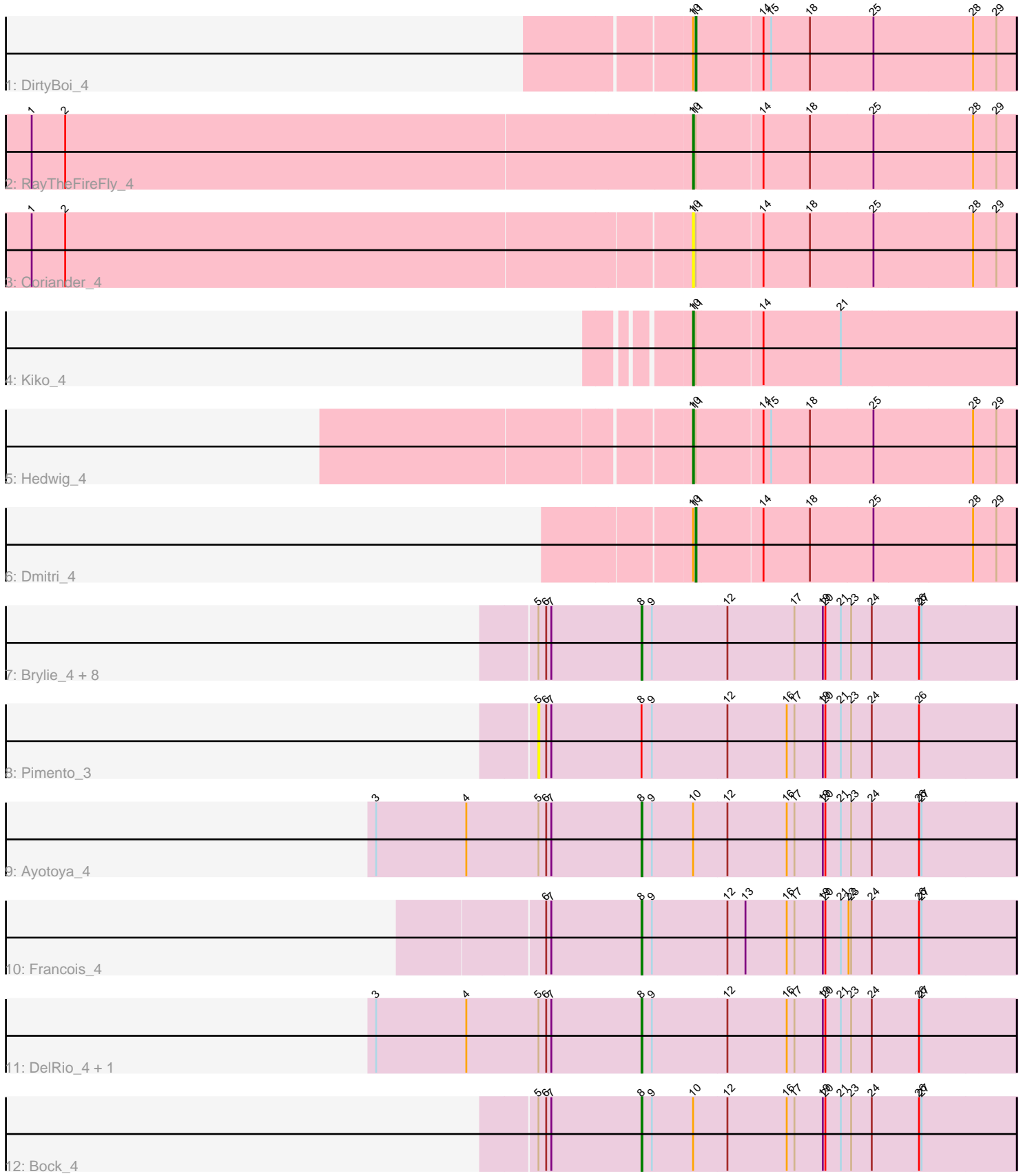


Pham 158182



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 158182 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158182 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : DirtyBoi_4
- Track 2 : RayTheFireFly_4
- Track 3 : Coriander_4
- Track 4 : Kiko_4
- Track 5 : Hedwig_4
- Track 6 : Dmitri_4
- Track 7 : Brylie_4, NancyRae_4, Chop_4, Hamood_4, GrandSlam_4, WheatThin_4, Nadeem_4, Parada_4, Mulch_4
- Track 8 : Pimento_3
- Track 9 : Ayotoya_4
- Track 10 : Francois_4
- Track 11 : DelRio_4, BetterKatz_4
- Track 12 : Bock_4

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

The start number called the most often in the published annotations is 8, it was called in 13 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya_4, BetterKatz_4, Bock_4, Brylie_4, Chop_4, DelRio_4, Francois_4, GrandSlam_4, Hamood_4, Mulch_4, Nadeem_4, NancyRae_4, Parada_4, WheatThin_4,

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

- Pimento_3,

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

- Coriander_4, DirtyBoi_4, Dmitri_4, Hedwig_4, Kiko_4, RayTheFireFly_4,

Summary by start number:

Start 5:

- Found in 14 of 21 (66.7%) of genes in pham

- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Pimento_3 (DI),

Start 8:

- Found in 15 of 21 (71.4%) of genes in pham
- Manual Annotations of this start: 13 of 18
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya_4 (DI), BetterKatz_4 (DI), Bock_4 (DI), Brylie_4 (DI), Chop_4 (DI), DelRio_4 (DI), Francois_4 (DI), GrandSlam_4 (DI), Hamood_4 (DI), Mulch_4 (DI), Nadeem_4 (DI), NancyRae_4 (DI), Parada_4 (DI), WheatThin_4 (DI),

Start 10:

- Found in 8 of 21 (38.1%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Coriander_4 (DB), Hedwig_4 (DB), Kiko_4 (DB), RayTheFireFly_4 (DB),

Start 11:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DirtyBoi_4 (DB), Dmitri_4 (DB),

Summary by clusters:

There are 2 clusters represented in this pham: DB, DI,

Info for manual annotations of cluster DB:

- Start number 10 was manually annotated 3 times for cluster DB.
- Start number 11 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DI:

- Start number 8 was manually annotated 13 times for cluster DI.

Gene Information:

Gene: Ayotoya_4 Start: 1318, Stop: 1749, Start Num: 8

Candidate Starts for Ayotoya_4:

(3, 1009), (4, 1114), (5, 1198), (6, 1207), (7, 1213), (Start: 8 @1318 has 13 MA's), (9, 1330), (Start: 10 @1378 has 3 MA's), (12, 1417), (16, 1486), (17, 1495), (19, 1528), (20, 1531), (21, 1549), (23, 1561), (24, 1585), (26, 1639), (27, 1642),

Gene: BetterKatz_4 Start: 1319, Stop: 1750, Start Num: 8

Candidate Starts for BetterKatz_4:

(3, 1010), (4, 1115), (5, 1199), (6, 1208), (7, 1214), (Start: 8 @1319 has 13 MA's), (9, 1331), (12, 1418), (16, 1487), (17, 1496), (19, 1529), (20, 1532), (21, 1550), (23, 1562), (24, 1586), (26, 1640), (27, 1643),

Gene: Bock_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Bock_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (Start: 10 @1126 has 3 MA's), (12, 1165), (16, 1234), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Brylie_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Brylie_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Chop_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Chop_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Coriander_4 Start: 3569, Stop: 3937, Start Num: 10

Candidate Starts for Coriander_4:

(1, 2813), (2, 2852), (Start: 10 @3569 has 3 MA's), (Start: 11 @3572 has 2 MA's), (14, 3647), (18, 3701), (25, 3773), (28, 3887), (29, 3914),

Gene: DelRio_4 Start: 1318, Stop: 1749, Start Num: 8

Candidate Starts for DelRio_4:

(3, 1009), (4, 1114), (5, 1198), (6, 1207), (7, 1213), (Start: 8 @1318 has 13 MA's), (9, 1330), (12, 1417), (16, 1486), (17, 1495), (19, 1528), (20, 1531), (21, 1549), (23, 1561), (24, 1585), (26, 1639), (27, 1642),

Gene: DirtyBoi_4 Start: 3575, Stop: 3940, Start Num: 11

Candidate Starts for DirtyBoi_4:

(Start: 10 @3572 has 3 MA's), (Start: 11 @3575 has 2 MA's), (14, 3650), (15, 3659), (18, 3704), (25, 3776), (28, 3890), (29, 3917),

Gene: Dmitri_4 Start: 3575, Stop: 3940, Start Num: 11

Candidate Starts for Dmitri_4:

(Start: 10 @3572 has 3 MA's), (Start: 11 @3575 has 2 MA's), (14, 3650), (18, 3704), (25, 3776), (28, 3890), (29, 3917),

Gene: Francois_4 Start: 1068, Stop: 1499, Start Num: 8

Candidate Starts for Francois_4:

(6, 957), (7, 963), (Start: 8 @1068 has 13 MA's), (9, 1080), (12, 1167), (13, 1188), (16, 1236), (17, 1245), (19, 1278), (20, 1281), (21, 1299), (22, 1308), (23, 1311), (24, 1335), (26, 1389), (27, 1392),

Gene: GrandSlam_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for GrandSlam_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Hamood_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Hamood_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Hedwig_4 Start: 3569, Stop: 3937, Start Num: 10

Candidate Starts for Hedwig_4:

(Start: 10 @3569 has 3 MA's), (Start: 11 @3572 has 2 MA's), (14, 3647), (15, 3656), (18, 3701), (25, 3773), (28, 3887), (29, 3914),

Gene: Kiko_4 Start: 3441, Stop: 3809, Start Num: 10

Candidate Starts for Kiko_4:

(Start: 10 @3441 has 3 MA's), (Start: 11 @3444 has 2 MA's), (14, 3519), (21, 3609),

Gene: Mulch_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Mulch_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Nadeem_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Nadeem_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: NancyRae_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for NancyRae_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Parada_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for Parada_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),

Gene: Pimento_3 Start: 946, Stop: 1497, Start Num: 5

Candidate Starts for Pimento_3:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (16, 1234), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387),

Gene: RayTheFireFly_4 Start: 3578, Stop: 3946, Start Num: 10

Candidate Starts for RayTheFireFly_4:

(1, 2816), (2, 2855), (Start: 10 @3578 has 3 MA's), (Start: 11 @3581 has 2 MA's), (14, 3656), (18, 3710), (25, 3782), (28, 3896), (29, 3923),

Gene: WheatThin_4 Start: 1066, Stop: 1497, Start Num: 8

Candidate Starts for WheatThin_4:

(5, 946), (6, 955), (7, 961), (Start: 8 @1066 has 13 MA's), (9, 1078), (12, 1165), (17, 1243), (19, 1276), (20, 1279), (21, 1297), (23, 1309), (24, 1333), (26, 1387), (27, 1390),