Pham 291495

1: Upyo_14
2: Mahdia_14
3: Applejacks_14
4: Widow_14
5: Puppers_14
6: Trine_14
7: Morrissey_15
8: Gustav_14
9: Opie_14 + 1
10: Bowser_14 + 2
11: Bunker_14
12: GEazy_14 + 1
13: TaronosaurasRx_14 + 1
14: Hedwig_15
15: BackstagePass_14
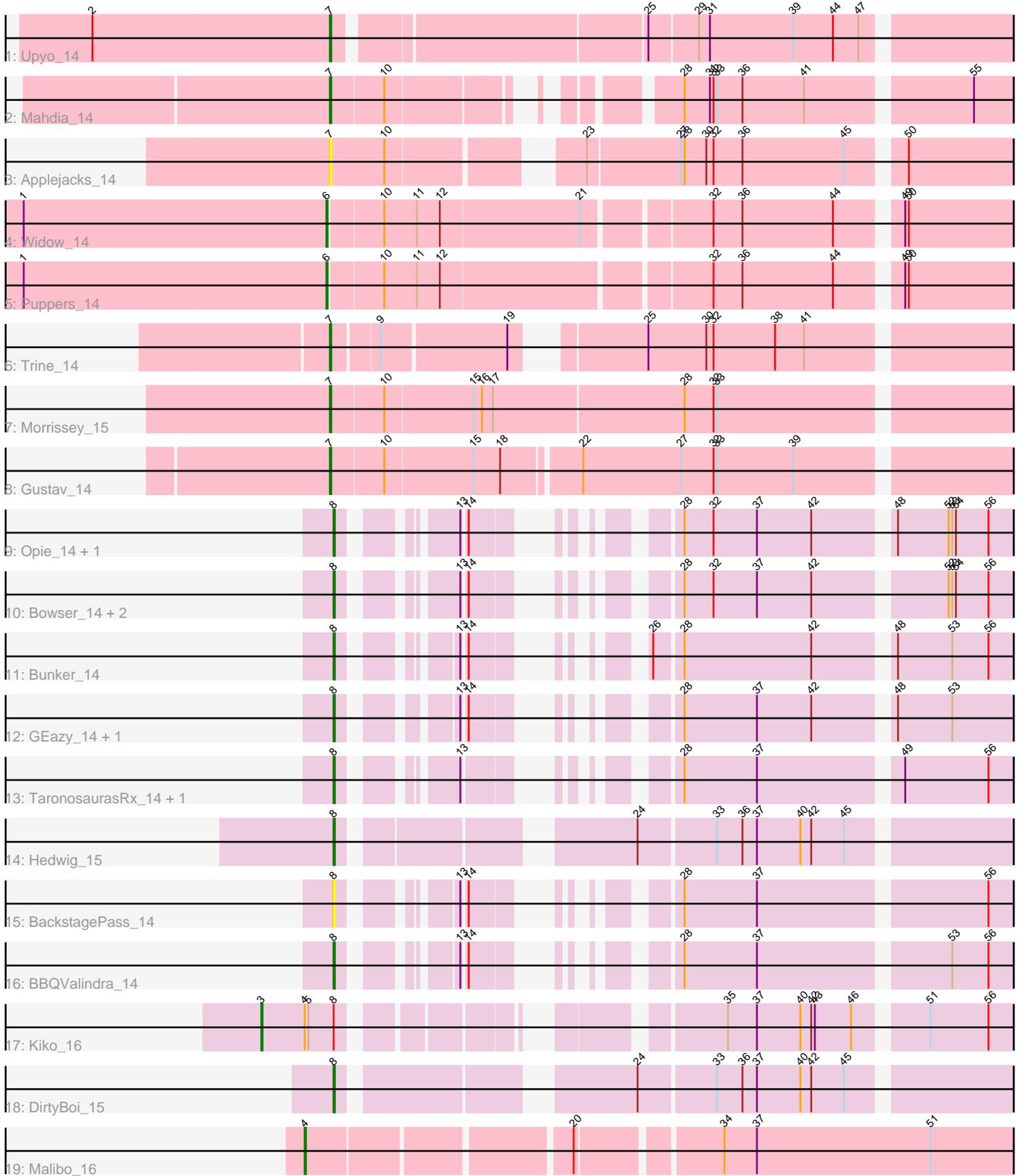16: BBQValindra_14
17: Kiko_16
18: DirtyBoi_15
19: Malibo_16

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 291495 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291495 has 24 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Upyo_14
• Track 2 : Mahdia_14
• Track 3 : Applejacks_14
• Track 4 : Widow_14
• Track 5 : Puppers_14
• Track 6 : Trine_14
• Track 7 : Morrissey_15
• Track 8 : Gustav_14
• Track 9 : Opie_14, Eyes_14
• Track 10 : Bowser_14, Schnabeltier_14, MagicMan_14
• Track 11 : Bunker_14
• Track 12 : GEazy_14, HannahD_14
• Track 13 : TaronosaurasRx_14, ZAYM_14
• Track 14 : Hedwig_15
• Track 15 : BackstagePass_14
• Track 16 : BBQValindra_14
• Track 17 : Kiko_16
• Track 18 : DirtyBoi_15
• Track 19 : Malibo_16

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 12 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BBQValindra_14, BackstagePass_14, Bowser_14, Bunker_14, DirtyBoi_15, Eyes_14, GEazy_14, HannahD_14, Hedwig_15, MagicMan_14, Opie_14, Schnabeltier_14, TaronosaurasRx_14, ZAYM_14,

Genes that have the "Most Annotated" start but do not call it:
• Kiko_16,

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

• Applejacks_14, Gustav_14, Mahdia_14, Malibo_16, Morrissey_15, Puppers_14, Trine_14, Upyo_14, Widow_14,

Summary by start number:

Start 3:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_16 (DB),

Start 4:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Malibo_16 (DW),

Start 6:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Puppers_14 (CD), Widow_14 (CD),

Start 7:
• Found in 6 of 24 (25.0%) of genes in pham
• Manual Annotations of this start: 5 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_14 (CD), Gustav_14 (CD), Mahdia_14 (CD), Morrissey_15 (CD), Trine_14 (CD), Upyo_14 (CD),

Start 8:
• Found in 15 of 24 (62.5%) of genes in pham
• Manual Annotations of this start: 12 of 21
• Called 93.3% of time when present
• Phage (with cluster) where this start called: BBQValindra_14 (DB), BackstagePass_14 (DB), Bowser_14 (DB), Bunker_14 (DB), DirtyBoi_15 (DB), Eyes_14 (DB), GEazy_14 (DB), HannahD_14 (DB), Hedwig_15 (DB), MagicMan_14 (DB), Opie_14 (DB), Schnabeltier_14 (DB), TaronosaurasRx_14 (DB), ZAYM_14 (DB),

Summary by clusters:

There are 3 clusters represented in this pham: DW, DB, CD,

Info for manual annotations of cluster CD:
•Start number 6 was manually annotated 2 times for cluster CD.
•Start number 7 was manually annotated 5 times for cluster CD.

Info for manual annotations of cluster DB:
•Start number 3 was manually annotated 1 time for cluster DB.
•Start number 8 was manually annotated 12 times for cluster DB.

Info for manual annotations of cluster DW:

•Start number 4 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Applejacks_14 Start: 8761, Stop: 9270, Start Num: 7
Candidate Starts for Applejacks_14:
(Start: 7 @8761 has 5 MA's), (10, 8806), (23, 8935), (27, 9010), (28, 9013), (30, 9031), (32, 9037), (36, 9061), (45, 9145), (50, 9184),

Gene: BBQValindra_14 Start: 9257, Stop: 9673, Start Num: 8
Candidate Starts for BBQValindra_14:
(Start: 8 @9257 has 12 MA's), (13, 9323), (14, 9326), (28, 9416), (37, 9476), (53, 9623), (56, 9653),

Gene: BackstagePass_14 Start: 9234, Stop: 9650, Start Num: 8
Candidate Starts for BackstagePass_14:
(Start: 8 @9234 has 12 MA's), (13, 9300), (14, 9303), (28, 9393), (37, 9453), (56, 9630),

Gene: Bowser_14 Start: 9259, Stop: 9681, Start Num: 8
Candidate Starts for Bowser_14:
(Start: 8 @9259 has 12 MA's), (13, 9328), (14, 9331), (28, 9424), (32, 9448), (37, 9484), (42, 9529), (52, 9628), (53, 9631), (54, 9634), (56, 9661),

Gene: Bunker_14 Start: 9257, Stop: 9673, Start Num: 8
Candidate Starts for Bunker_14:
(Start: 8 @9257 has 12 MA's), (13, 9323), (14, 9326), (26, 9395), (28, 9416), (42, 9521), (48, 9578), (53, 9623), (56, 9653),

Gene: DirtyBoi_15 Start: 9613, Stop: 10107, Start Num: 8
Candidate Starts for DirtyBoi_15:
(Start: 8 @9613 has 12 MA's), (24, 9817), (33, 9877), (36, 9898), (37, 9910), (40, 9946), (42, 9955), (45, 9982),

Gene: Eyes_14 Start: 9267, Stop: 9689, Start Num: 8
Candidate Starts for Eyes_14:
(Start: 8 @9267 has 12 MA's), (13, 9336), (14, 9339), (28, 9432), (32, 9456), (37, 9492), (42, 9537), (48, 9594), (52, 9636), (53, 9639), (54, 9642), (56, 9669),

Gene: GEazy_14 Start: 9276, Stop: 9695, Start Num: 8
Candidate Starts for GEazy_14:
(Start: 8 @9276 has 12 MA's), (13, 9345), (14, 9348), (28, 9438), (37, 9498), (42, 9543), (48, 9600), (53, 9645),

Gene: Gustav_14 Start: 8845, Stop: 9381, Start Num: 7
Candidate Starts for Gustav_14:
(Start: 7 @8845 has 5 MA's), (10, 8887), (15, 8959), (18, 8980), (22, 9040), (27, 9121), (32, 9148), (33, 9151), (39, 9214),

Gene: HannahD_14 Start: 9276, Stop: 9695, Start Num: 8
Candidate Starts for HannahD_14:
(Start: 8 @9276 has 12 MA's), (13, 9345), (14, 9348), (28, 9438), (37, 9498), (42, 9543), (48, 9600), (53, 9645),

Gene: Hedwig_15 Start: 9612, Stop: 10103, Start Num: 8
Candidate Starts for Hedwig_15:
(Start: 8 @9612 has 12 MA's), (24, 9813), (33, 9873), (36, 9894), (37, 9906), (40, 9942), (42, 9951), (45, 9978),

Gene: Kiko_16 Start: 9458, Stop: 9973, Start Num: 3
Candidate Starts for Kiko_16:
(Start: 3 @9458 has 1 MA's), (Start: 4 @9494 has 1 MA's), (5, 9497), (Start: 8 @9515 has 12 MA's), (35, 9752), (37, 9776), (40, 9812), (42, 9821), (43, 9824), (46, 9854), (51, 9905), (56, 9953),

Gene: MagicMan_14 Start: 9597, Stop: 10025, Start Num: 8
Candidate Starts for MagicMan_14:
(Start: 8 @9597 has 12 MA's), (13, 9666), (14, 9669), (28, 9768), (32, 9792), (37, 9828), (42, 9873), (52, 9972), (53, 9975), (54, 9978), (56, 10005),

Gene: Mahdia_14 Start: 8824, Stop: 9300, Start Num: 7
Candidate Starts for Mahdia_14:
(Start: 7 @8824 has 5 MA's), (10, 8866), (28, 9043), (31, 9064), (32, 9067), (33, 9070), (36, 9091), (41, 9142), (55, 9268),

Gene: Malibo_16 Start: 9627, Stop: 10175, Start Num: 4
Candidate Starts for Malibo_16:
(Start: 4 @9627 has 1 MA's), (20, 9828), (34, 9936), (37, 9963), (51, 10107),

Gene: Morrissey_15 Start: 9186, Stop: 9728, Start Num: 7
Candidate Starts for Morrissey_15:
(Start: 7 @9186 has 5 MA's), (10, 9228), (15, 9300), (16, 9306), (17, 9315), (28, 9471), (32, 9495), (33, 9498),

Gene: Opie_14 Start: 9611, Stop: 10033, Start Num: 8
Candidate Starts for Opie_14:
(Start: 8 @9611 has 12 MA's), (13, 9680), (14, 9683), (28, 9776), (32, 9800), (37, 9836), (42, 9881), (48, 9938), (52, 9980), (53, 9983), (54, 9986), (56, 10013),

Gene: Puppers_14 Start: 8726, Stop: 9256, Start Num: 6
Candidate Starts for Puppers_14:
(1, 8477), (Start: 6 @8726 has 2 MA's), (10, 8768), (11, 8795), (12, 8813), (32, 9023), (36, 9047), (44, 9122), (49, 9167), (50, 9170),

Gene: Schnabeltier_14 Start: 9598, Stop: 10026, Start Num: 8
Candidate Starts for Schnabeltier_14:
(Start: 8 @9598 has 12 MA's), (13, 9667), (14, 9670), (28, 9769), (32, 9793), (37, 9829), (42, 9874), (52, 9973), (53, 9976), (54, 9979), (56, 10006),

Gene: TaronosaurasRx_14 Start: 9610, Stop: 10032, Start Num: 8
Candidate Starts for TaronosaurasRx_14:
(Start: 8 @9610 has 12 MA's), (13, 9679), (28, 9775), (37, 9835), (49, 9943), (56, 10012),

Gene: Trine_14 Start: 8732, Stop: 9235, Start Num: 7
Candidate Starts for Trine_14:
(Start: 7 @8732 has 5 MA's), (9, 8768), (19, 8867), (25, 8948), (30, 8996), (32, 9002), (38, 9053), (41, 9077),

Gene: Upyo_14 Start: 8842, Stop: 9366, Start Num: 7
Candidate Starts for Upyo_14:
(2, 8647), (Start: 7 @8842 has 5 MA's), (25, 9082), (29, 9121), (31, 9130), (39, 9199), (44, 9232), (47, 9253),

Gene: Widow_14 Start: 8717, Stop: 9247, Start Num: 6
Candidate Starts for Widow_14:
(1, 8468), (Start: 6 @8717 has 2 MA's), (10, 8759), (11, 8786), (12, 8804), (21, 8918), (32, 9014), (36, 9038), (44, 9113), (49, 9158), (50, 9161),

Gene: ZAYM_14 Start: 9602, Stop: 10024, Start Num: 8
Candidate Starts for ZAYM_14:
(Start: 8 @9602 has 12 MA's), (13, 9671), (28, 9767), (37, 9827), (49, 9935), (56, 10004),