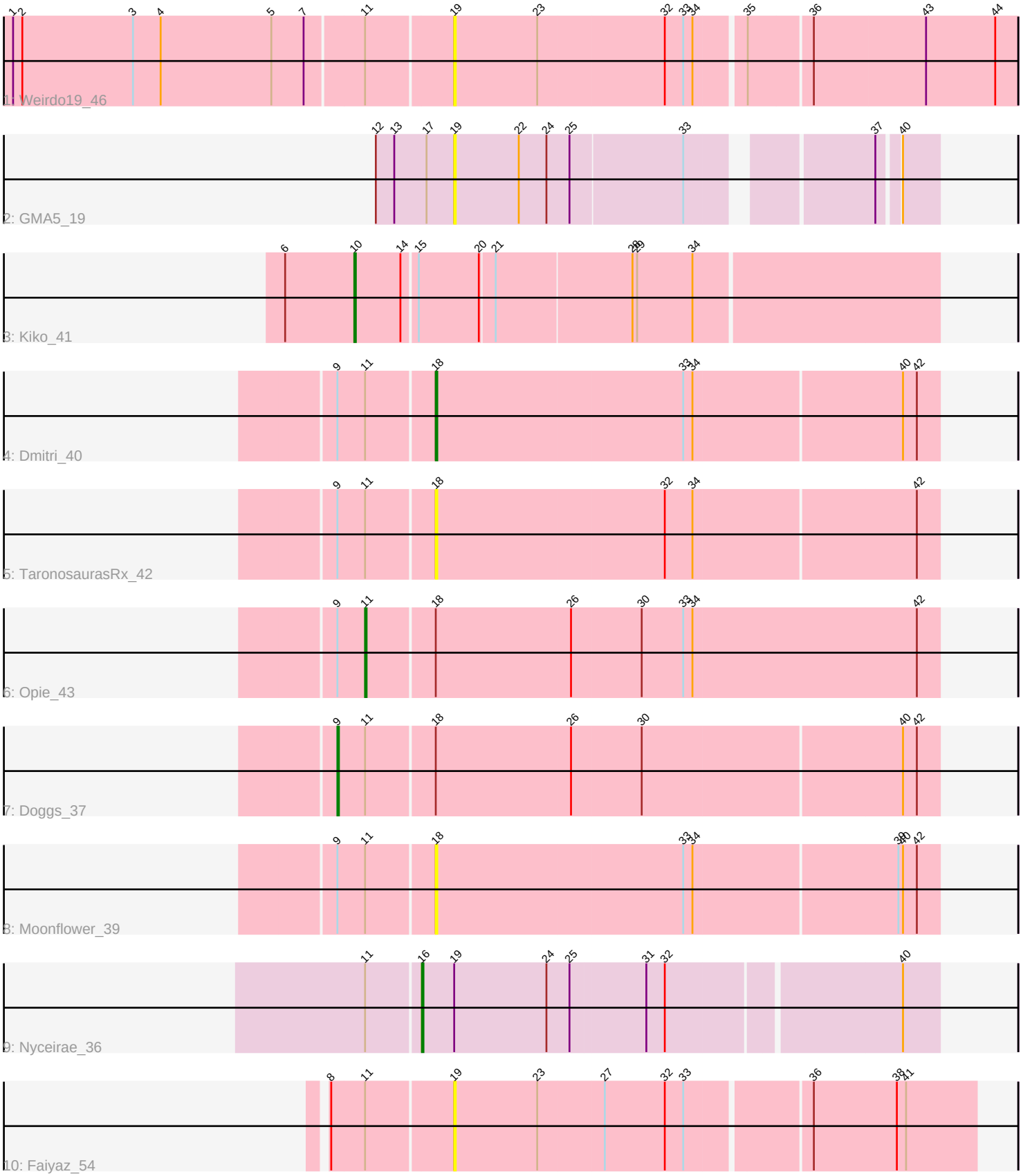
Pham 225096


1: Weirdo19_46
2: GMA5_19
3: Kiko_41
4: Dmitri_40
5: TaronosaurasRx_42
6: Opie_43
7: Doggs_37
8: Moonflower_39
9: Nyceirae_36
10: Faiyaz_54

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 225096 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225096 has 10 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Weirdo19_46
• Track 2 : GMA5_19
• Track 3 : Kiko_41
• Track 4 : Dmitri_40
• Track 5 : TaronosaurasRx_42
• Track 6 : Opie_43
• Track 7 : Doggs_37
• Track 8 : Moonflower_39
• Track 9 : Nyceirae_36
• Track 10 : Faiyaz_54

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

The start number called the most often in the published annotations is 16, it was called in 1 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Nyceirae_36,

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

Genes that do not have the "Most Annotated" start:
• Dmitri_40, Doggs_37, Faiyaz_54, GMA5_19, Kiko_41, Moonflower_39, Opie_43, TaronosaurasRx_42, Weirdo19_46,

Summary by start number:

Start 9:
• Found in 5 of 10 (50.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Doggs_37 (DB),

Start 10:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_41 (DB),

Start 11:
• Found in 8 of 10 (80.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Opie_43 (DB),

Start 16:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nyceirae_36 (DT),

Start 18:
• Found in 5 of 10 (50.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Dmitri_40 (DB), Moonflower_39 (DB), TaronosaurasRx_42 (DB),

Start 19:
• Found in 4 of 10 (40.0%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Faiyaz_54 (Y), GMA5_19 (CW2), Weirdo19_46 (AH),

Summary by clusters:

There are 5 clusters represented in this pham: Y, AH, DT, CW2, DB,

Info for manual annotations of cluster DB:
•Start number 9 was manually annotated 1 time for cluster DB.
•Start number 10 was manually annotated 1 time for cluster DB.
•Start number 11 was manually annotated 1 time for cluster DB.
•Start number 18 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DT:
•Start number 16 was manually annotated 1 time for cluster DT.

Gene Information:

Gene: Dmitri_40 Start: 33369, Stop: 33049, Start Num: 18

Candidate Starts for Dmitri_40:
(Start: 9 @33429 has 1 MA's), (Start: 11 @33411 has 1 MA's), (Start: 18 @33369 has 1 MA's), (33, 33210), (34, 33204), (40, 33072), (42, 33063),

Gene: Doggs_37 Start: 32568, Stop: 32188, Start Num: 9
Candidate Starts for Doggs_37:
(Start: 9 @32568 has 1 MA's), (Start: 11 @32550 has 1 MA's), (Start: 18 @32508 has 1 MA's), (26, 32421), (30, 32376), (40, 32211), (42, 32202),

Gene: Faiyaz_54 Start: 41111, Stop: 40785, Start Num: 19
Candidate Starts for Faiyaz_54:
(8, 41186), (Start: 11 @41165 has 1 MA's), (19, 41111), (23, 41057), (27, 41015), (32, 40976), (33, 40964), (36, 40889), (38, 40835), (41, 40829),

Gene: GMA5_19 Start: 14633, Stop: 14346, Start Num: 19
Candidate Starts for GMA5_19:
(12, 14684), (13, 14672), (17, 14651), (19, 14633), (22, 14591), (24, 14573), (25, 14558), (33, 14486), (37, 14381), (40, 14369),

Gene: Kiko_41 Start: 32143, Stop: 31775, Start Num: 10
Candidate Starts for Kiko_41:
(6, 32188), (Start: 10 @32143 has 1 MA's), (14, 32113), (15, 32104), (20, 32065), (21, 32056), (28, 31969), (29, 31966), (34, 31930),

Gene: Moonflower_39 Start: 33232, Stop: 32912, Start Num: 18
Candidate Starts for Moonflower_39:
(Start: 9 @33292 has 1 MA's), (Start: 11 @33274 has 1 MA's), (Start: 18 @33232 has 1 MA's), (33, 33073), (34, 33067), (39, 32938), (40, 32935), (42, 32926),

Gene: Nyceirae_36 Start: 30000, Stop: 29677, Start Num: 16
Candidate Starts for Nyceirae_36:
(Start: 11 @30033 has 1 MA's), (Start: 16 @30000 has 1 MA's), (19, 29979), (24, 29919), (25, 29904), (31, 29856), (32, 29844), (40, 29700),

Gene: Opie_43 Start: 33208, Stop: 32843, Start Num: 11
Candidate Starts for Opie_43:
(Start: 9 @33226 has 1 MA's), (Start: 11 @33208 has 1 MA's), (Start: 18 @33166 has 1 MA's), (26, 33079), (30, 33034), (33, 33007), (34, 33001), (42, 32857),

Gene: TaronosaurasRx_42 Start: 31568, Stop: 31248, Start Num: 18
Candidate Starts for TaronosaurasRx_42:
(Start: 9 @31628 has 1 MA's), (Start: 11 @31610 has 1 MA's), (Start: 18 @31568 has 1 MA's), (32, 31421), (34, 31403), (42, 31262),

Gene: Weirdo19_46 Start: 34933, Stop: 34580, Start Num: 19
Candidate Starts for Weirdo19_46:
(1, 35212), (2, 35206), (3, 35134), (4, 35116), (5, 35044), (7, 35023), (Start: 11 @34987 has 1 MA's), (19, 34933), (23, 34879), (32, 34798), (33, 34786), (34, 34780), (35, 34750), (36, 34711), (43, 34639), (44, 34594),