Pham 3484

1: Dmitri_46
2: Eyes_46 + 2
3: Doggs_43
4: GEazy_53
5: BBQValindra_47 + 1
6: ZAYM_50 + 1
7: Coriander_46
8: Kiko_46
9: Bunker_45
10: HannahD_50
11: DirtyBoi_48
12: RayTheFireFly_53
13: BackstagePass_55
14: Hedwig_49
15: Bowser_48
16: Ewald_41
17: Phishy_45 + 1
18: Vordorf_42
19: Nyceirae_45
20: Dogfish_41

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 3484 Report

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

Pham number 3484 has 25 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Dmitri_46
• Track 2 : Eyes_46, MagicMan_48, Opie_51
• Track 3 : Doggs_43
• Track 4 : GEazy_53
• Track 5 : BBQValindra_47, Schnabeltier_49
• Track 6 : ZAYM_50, TaronosaurasRx_53
• Track 7 : Coriander_46
• Track 8 : Kiko_46
• Track 9 : Bunker_45
• Track 10 : HannahD_50
• Track 11 : DirtyBoi_48
• Track 12 : RayTheFireFly_53
• Track 13 : BackstagePass_55
• Track 14 : Hedwig_49
• Track 15 : Bowser_48
• Track 16 : Ewald_41
• Track 17 : Phishy_45, Meyran_41
• Track 18 : Vordorf_42
• Track 19 : Nyceirae_45
• Track 20 : Dogfish_41

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BBQValindra_47, Dogfish_41, Ewald_41, Eyes_46, GEazy_53, MagicMan_48, Meyran_41, Nyceirae_45, Opie_51, Phishy_45, Schnabeltier_49,

Genes that have the "Most Annotated" start but do not call it:
• Bowser_48, HannahD_50, TaronosaurasRx_53, Vordorf_42, ZAYM_50,

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

• BackstagePass_55, Bunker_45, Coriander_46, DirtyBoi_48, Dmitri_46, Doggs_43, Hedwig_49, Kiko_46, RayTheFireFly_53,

Summary by start number:

Start 3:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_46 (DB),

Start 4:
• Found in 8 of 25 (32.0%) of genes in pham
• Manual Annotations of this start: 6 of 20
• Called 87.5% of time when present
• Phage (with cluster) where this start called: BackstagePass_55 (DB), Bunker_45 (DB), DirtyBoi_48 (DB), Dmitri_46 (DB), Doggs_43 (DB), Hedwig_49 (DB), RayTheFireFly_53 (DB),

Start 6:
• Found in 16 of 25 (64.0%) of genes in pham
• Manual Annotations of this start: 11 of 20
• Called 68.8% of time when present
• Phage (with cluster) where this start called: BBQValindra_47 (DB), Dogfish_41 (DT), Ewald_41 (DT), Eyes_46 (DB), GEazy_53 (DB), MagicMan_48 (DB), Meyran_41 (DT), Nyceirae_45 (DT), Opie_51 (DB), Phishy_45 (DT), Schnabeltier_49 (DB),

Start 8:
• Found in 19 of 25 (76.0%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 26.3% of time when present
• Phage (with cluster) where this start called: Bowser_48 (DB), Coriander_46 (DB), HannahD_50 (DB), TaronosaurasRx_53 (DB), ZAYM_50 (DB),

Start 10:
• Found in 6 of 25 (24.0%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Vordorf_42 (DT),

Summary by clusters:

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

Info for manual annotations of cluster DB:
•Start number 3 was manually annotated 1 time for cluster DB.
•Start number 4 was manually annotated 6 times for cluster DB.
•Start number 6 was manually annotated 6 times for cluster DB.
•Start number 8 was manually annotated 2 times for cluster DB.

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

Gene Information:

Gene: BBQValindra_47 Start: 35289, Stop: 35618, Start Num: 6
Candidate Starts for BBQValindra_47:
(Start: 6 @35289 has 11 MA's), (Start: 8 @35334 has 2 MA's), (17, 35484), (20, 35517),

Gene: BackstagePass_55 Start: 35425, Stop: 35754, Start Num: 4
Candidate Starts for BackstagePass_55:
(Start: 4 @35425 has 6 MA's), (Start: 8 @35488 has 2 MA's), (15, 35599), (19, 35653), (20, 35656),

Gene: Bowser_48 Start: 35140, Stop: 35427, Start Num: 8
Candidate Starts for Bowser_48:
(Start: 6 @35095 has 11 MA's), (Start: 8 @35140 has 2 MA's), (13, 35230), (17, 35290), (20, 35323),

Gene: Bunker_45 Start: 34369, Stop: 34698, Start Num: 4
Candidate Starts for Bunker_45:
(Start: 4 @34369 has 6 MA's), (Start: 8 @34432 has 2 MA's), (15, 34543), (18, 34585), (19, 34597), (20, 34600),

Gene: Coriander_46 Start: 33932, Stop: 34198, Start Num: 8
Candidate Starts for Coriander_46:
(1, 33731), (Start: 4 @33869 has 6 MA's), (Start: 8 @33932 has 2 MA's), (9, 33935), (12, 34004), (14, 34040), (15, 34043), (20, 34100),

Gene: DirtyBoi_48 Start: 33907, Stop: 34236, Start Num: 4
Candidate Starts for DirtyBoi_48:
(Start: 4 @33907 has 6 MA's), (Start: 8 @33970 has 2 MA's), (12, 34042), (14, 34078), (15, 34081), (20, 34138),

Gene: Dmitri_46 Start: 35440, Stop: 35769, Start Num: 4
Candidate Starts for Dmitri_46:
(Start: 4 @35440 has 6 MA's), (Start: 8 @35503 has 2 MA's), (10, 35545), (12, 35575), (14, 35611), (15, 35614), (20, 35671),

Gene: Dogfish_41 Start: 32015, Stop: 32338, Start Num: 6
Candidate Starts for Dogfish_41:
(2, 31979), (Start: 6 @32015 has 11 MA's), (7, 32048), (9, 32066), (11, 32111), (12, 32135), (15, 32177), (21, 32246),

Gene: Doggs_43 Start: 34597, Stop: 34926, Start Num: 4
Candidate Starts for Doggs_43:
(Start: 4 @34597 has 6 MA's), (Start: 8 @34660 has 2 MA's), (9, 34663), (12, 34732), (14, 34768), (15, 34771), (20, 34828),

Gene: Ewald_41 Start: 31836, Stop: 32159, Start Num: 6
Candidate Starts for Ewald_41:
(Start: 6 @31836 has 11 MA's), (10, 31926), (11, 31932), (12, 31956), (15, 31998),

Gene: Eyes_46 Start: 35139, Stop: 35468, Start Num: 6
Candidate Starts for Eyes_46:
(Start: 6 @35139 has 11 MA's), (Start: 8 @35184 has 2 MA's), (17, 35334), (20, 35367), (22, 35409),

Gene: GEazy_53 Start: 35417, Stop: 35749, Start Num: 6
Candidate Starts for GEazy_53:
(Start: 6 @35417 has 11 MA's), (Start: 8 @35465 has 2 MA's), (13, 35555), (17, 35615), (20, 35648), (22, 35690),

Gene: HannahD_50 Start: 34832, Stop: 35116, Start Num: 8
Candidate Starts for HannahD_50:
(Start: 6 @34784 has 11 MA's), (Start: 8 @34832 has 2 MA's), (13, 34922), (17, 34982), (20, 35015), (22, 35057),

Gene: Hedwig_49 Start: 34331, Stop: 34654, Start Num: 4
Candidate Starts for Hedwig_49:
(Start: 4 @34331 has 6 MA's), (Start: 8 @34394 has 2 MA's), (12, 34466), (14, 34502), (15, 34505), (16, 34520), (20, 34562),

Gene: Kiko_46 Start: 34258, Stop: 34596, Start Num: 3
Candidate Starts for Kiko_46:
(Start: 3 @34258 has 1 MA's), (5, 34267), (Start: 8 @34327 has 2 MA's), (12, 34399), (13, 34411), (20, 34495),

Gene: MagicMan_48 Start: 35021, Stop: 35350, Start Num: 6
Candidate Starts for MagicMan_48:
(Start: 6 @35021 has 11 MA's), (Start: 8 @35066 has 2 MA's), (17, 35216), (20, 35249), (22, 35291),

Gene: Meyran_41 Start: 32910, Stop: 33233, Start Num: 6
Candidate Starts for Meyran_41:
(2, 32871), (Start: 6 @32910 has 11 MA's), (10, 33000), (11, 33006), (12, 33030), (15, 33072),

Gene: Nyceirae_45 Start: 32724, Stop: 33047, Start Num: 6
Candidate Starts for Nyceirae_45:
(Start: 6 @32724 has 11 MA's), (10, 32814), (11, 32820), (12, 32844), (15, 32886),

Gene: Opie_51 Start: 35966, Stop: 36295, Start Num: 6
Candidate Starts for Opie_51:
(Start: 6 @35966 has 11 MA's), (Start: 8 @36011 has 2 MA's), (17, 36161), (20, 36194), (22, 36236),

Gene: Phishy_45 Start: 33907, Stop: 34230, Start Num: 6
Candidate Starts for Phishy_45:
(2, 33868), (Start: 6 @33907 has 11 MA's), (10, 33997), (11, 34003), (12, 34027), (15, 34069),

Gene: RayTheFireFly_53 Start: 35495, Stop: 35824, Start Num: 4
Candidate Starts for RayTheFireFly_53:
(Start: 4 @35495 has 6 MA's), (Start: 8 @35558 has 2 MA's), (12, 35630), (14, 35666), (15, 35669), (20, 35726),

Gene: Schnabeltier_49 Start: 35214, Stop: 35543, Start Num: 6
Candidate Starts for Schnabeltier_49:
(Start: 6 @35214 has 11 MA's), (Start: 8 @35259 has 2 MA's), (17, 35409), (20, 35442),

Gene: TaronosaurasRx_53 Start: 34584, Stop: 34868, Start Num: 8
Candidate Starts for TaronosaurasRx_53:
(Start: 6 @34539 has 11 MA's), (Start: 8 @34584 has 2 MA's), (17, 34734), (20, 34767),

Gene: Vordorf_42 Start: 32263, Stop: 32496, Start Num: 10
Candidate Starts for Vordorf_42:
(2, 32134), (Start: 6 @32173 has 11 MA's), (10, 32263), (11, 32269), (12, 32293), (15, 32335),

Gene: ZAYM_50 Start: 34332, Stop: 34616, Start Num: 8
Candidate Starts for ZAYM_50:
(Start: 6 @34287 has 11 MA's), (Start: 8 @34332 has 2 MA's), (17, 34482), (20, 34515),