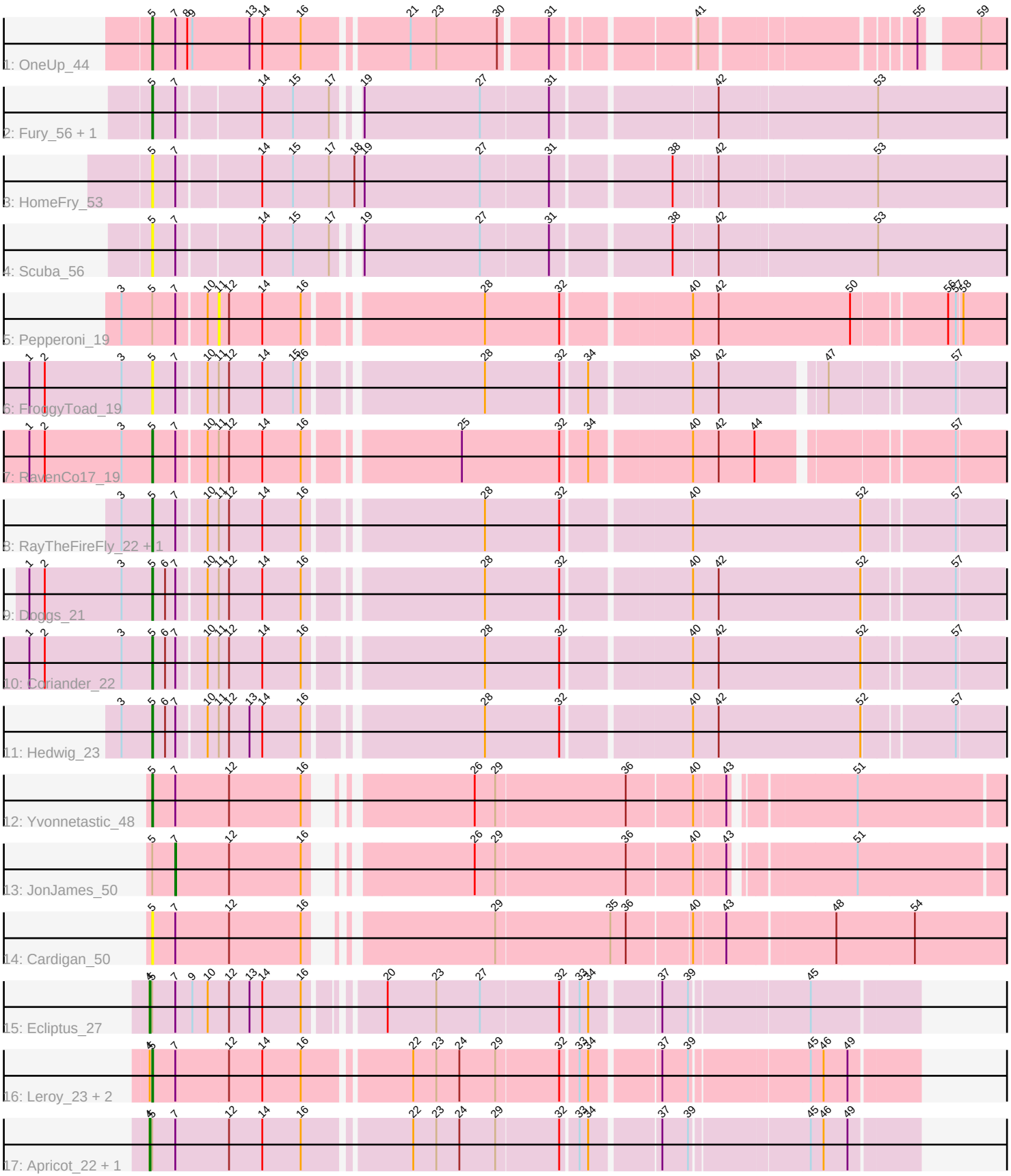
Pham 280863


1: OneUp_44
2: Fury_56 + 1
3: HomeFry_53
4: Scuba_56
5: Pepperoni_19
6: FroggyToad_19
7: RavenCo17_19
8: RayTheFireFly_22 + 1
9: Doggs_21
10: Coriander_22
11: Hedwig_23
12: Yvonnetastic_48
13: JonJames_50
14: Cardigan_50
15: Ecliptus_27
16: Leroy_23 + 2
17: Apricot_22 + 1

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 280863 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280863 has 22 members, 5 are drafts.

Phages represented in each track:
• Track 1 : OneUp_44
• Track 2 : Fury_56, Pleakley_56
• Track 3 : HomeFry_53
• Track 4 : Scuba_56
• Track 5 : Pepperoni_19
• Track 6 : FroggyToad_19
• Track 7 : RavenCo17_19
• Track 8 : RayTheFireFly_22, DirtyBoi_23
• Track 9 : Doggs_21
• Track 10 : Coriander_22
• Track 11 : Hedwig_23
• Track 12 : Yvonnetastic_48
• Track 13 : JonJames_50
• Track 14 : Cardigan_50
• Track 15 : Ecliptus_27
• Track 16 : Leroy_23, Phistory_24, Crater_21
• Track 17 : Apricot_22, Horus_23

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cardigan_50, Coriander_22, Crater_21, DirtyBoi_23, Doggs_21, FroggyToad_19, Fury_56, Hedwig_23, HomeFry_53, Leroy_23, OneUp_44, Phistory_24, Pleakley_56, RavenCo17_19, RayTheFireFly_22, Scuba_56, Yvonnetastic_48,

Genes that have the "Most Annotated" start but do not call it:
• Apricot_22, Ecliptus_27, Horus_23, JonJames_50, Pepperoni_19,

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

Summary by start number:

Start 4:
• Found in 6 of 22 (27.3%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Apricot_22 (DN3), Ecliptus_27 (DN), Horus_23 (DN1),

Start 5:
• Found in 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 13 of 17
• Called 77.3% of time when present
• Phage (with cluster) where this start called: Cardigan_50 (DD), Coriander_22 (DB), Crater_21 (DN3), DirtyBoi_23 (DB), Doggs_21 (DB), FroggyToad_19 (CZ2), Fury_56 (CR5), Hedwig_23 (DB), HomeFry_53 (CR5), Leroy_23 (DN1), OneUp_44 (CQ2), Phistory_24 (DN1), Pleakley_56 (CR5), RavenCo17_19 (CZ8), RayTheFireFly_22 (DB), Scuba_56 (CR5), Yvonnetastic_48 (DD),

Start 7:
• Found in 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 4.5% of time when present
• Phage (with cluster) where this start called: JonJames_50 (DD),

Start 11:
• Found in 8 of 22 (36.4%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Pepperoni_19 (CZ),

Summary by clusters:

There are 10 clusters represented in this pham: DN, CZ8, CR5, CZ2, DD, DB, CZ, DN1, DN3, CQ2,

Info for manual annotations of cluster CQ2:
•Start number 5 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CR5:
•Start number 5 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CZ8:
•Start number 5 was manually annotated 1 time for cluster CZ8.

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

Info for manual annotations of cluster DD:
•Start number 5 was manually annotated 1 time for cluster DD.
•Start number 7 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DN:
•Start number 4 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 4 was manually annotated 1 time for cluster DN1.
•Start number 5 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 4 was manually annotated 1 time for cluster DN3.
•Start number 5 was manually annotated 1 time for cluster DN3.

Gene Information:

Gene: Apricot_22 Start: 18919, Stop: 19752, Start Num: 4
Candidate Starts for Apricot_22:
(Start: 4 @18919 has 3 MA's), (Start: 5 @18922 has 13 MA's), (Start: 7 @18949 has 1 MA's), (12, 19009), (14, 19048), (16, 19093), (22, 19207), (23, 19234), (24, 19261), (29, 19303), (32, 19375), (33, 19393), (34, 19402), (37, 19474), (39, 19504), (45, 19633), (46, 19648), (49, 19675),

Gene: Cardigan_50 Start: 35257, Stop: 36186, Start Num: 5
Candidate Starts for Cardigan_50:
(Start: 5 @35257 has 13 MA's), (Start: 7 @35284 has 1 MA's), (12, 35347), (16, 35431), (29, 35602), (35, 35734), (36, 35752), (40, 35824), (43, 35860), (48, 35980), (54, 36070),

Gene: Coriander_22 Start: 20422, Stop: 21342, Start Num: 5
Candidate Starts for Coriander_22:
(1, 20278), (2, 20296), (3, 20386), (Start: 5 @20422 has 13 MA's), (6, 20437), (Start: 7 @20449 has 1 MA's), (10, 20479), (11, 20491), (12, 20503), (14, 20542), (16, 20587), (28, 20773), (32, 20860), (40, 20995), (42, 21025), (52, 21190), (57, 21289),

Gene: Crater_21 Start: 18922, Stop: 19752, Start Num: 5
Candidate Starts for Crater_21:
(Start: 4 @18919 has 3 MA's), (Start: 5 @18922 has 13 MA's), (Start: 7 @18949 has 1 MA's), (12, 19009), (14, 19048), (16, 19093), (22, 19207), (23, 19234), (24, 19261), (29, 19303), (32, 19375), (33, 19393), (34, 19402), (37, 19474), (39, 19504), (45, 19633), (46, 19648), (49, 19675),

Gene: DirtyBoi_23 Start: 19883, Stop: 20803, Start Num: 5
Candidate Starts for DirtyBoi_23:
(3, 19847), (Start: 5 @19883 has 13 MA's), (Start: 7 @19910 has 1 MA's), (10, 19940), (11, 19952), (12, 19964), (14, 20003), (16, 20048), (28, 20234), (32, 20321), (40, 20456), (52, 20651), (57, 20750),

Gene: Doggs_21 Start: 20121, Stop: 21041, Start Num: 5
Candidate Starts for Doggs_21:
(1, 19977), (2, 19995), (3, 20085), (Start: 5 @20121 has 13 MA's), (6, 20136), (Start: 7 @20148 has 1 MA's), (10, 20178), (11, 20190), (12, 20202), (14, 20241), (16, 20286), (28, 20472), (32, 20559), (40, 20694), (42, 20724), (52, 20889), (57, 20988),

Gene: Ecliptus_27 Start: 21245, Stop: 22066, Start Num: 4
Candidate Starts for Ecliptus_27:

(Start: 4 @21245 has 3 MA's), (Start: 5 @21248 has 13 MA's), (Start: 7 @21275 has 1 MA's), (9, 21293), (10, 21311), (12, 21335), (13, 21359), (14, 21374), (16, 21419), (20, 21491), (23, 21548), (27, 21599), (32, 21689), (33, 21707), (34, 21716), (37, 21788), (39, 21818), (45, 21947),

Gene: FroggyToad_19 Start: 17146, Stop: 18084, Start Num: 5
Candidate Starts for FroggyToad_19:
(1, 17002), (2, 17020), (3, 17110), (Start: 5 @17146 has 13 MA's), (Start: 7 @17173 has 1 MA's), (10, 17203), (11, 17215), (12, 17227), (14, 17266), (15, 17302), (16, 17311), (28, 17497), (32, 17584), (34, 17611), (40, 17719), (42, 17749), (47, 17860), (57, 17995),

Gene: Fury_56 Start: 37521, Stop: 38534, Start Num: 5
Candidate Starts for Fury_56:
(Start: 5 @37521 has 13 MA's), (Start: 7 @37548 has 1 MA's), (14, 37638), (15, 37674), (17, 37716), (19, 37734), (27, 37869), (31, 37947), (42, 38127), (53, 38304),

Gene: Hedwig_23 Start: 19879, Stop: 20799, Start Num: 5
Candidate Starts for Hedwig_23:
(3, 19843), (Start: 5 @19879 has 13 MA's), (6, 19894), (Start: 7 @19906 has 1 MA's), (10, 19936), (11, 19948), (12, 19960), (13, 19984), (14, 19999), (16, 20044), (28, 20230), (32, 20317), (40, 20452), (42, 20482), (52, 20647), (57, 20746),

Gene: HomeFry_53 Start: 36153, Stop: 37187, Start Num: 5
Candidate Starts for HomeFry_53:
(Start: 5 @36153 has 13 MA's), (Start: 7 @36180 has 1 MA's), (14, 36270), (15, 36306), (17, 36348), (18, 36378), (19, 36390), (27, 36525), (31, 36603), (38, 36732), (42, 36780), (53, 36954),

Gene: Horus_23 Start: 19383, Stop: 20216, Start Num: 4
Candidate Starts for Horus_23:
(Start: 4 @19383 has 3 MA's), (Start: 5 @19386 has 13 MA's), (Start: 7 @19413 has 1 MA's), (12, 19473), (14, 19512), (16, 19557), (22, 19671), (23, 19698), (24, 19725), (29, 19767), (32, 19839), (33, 19857), (34, 19866), (37, 19938), (39, 19968), (45, 20097), (46, 20112), (49, 20139),

Gene: JonJames_50 Start: 36217, Stop: 37089, Start Num: 7
Candidate Starts for JonJames_50:
(Start: 5 @36190 has 13 MA's), (Start: 7 @36217 has 1 MA's), (12, 36280), (16, 36364), (26, 36511), (29, 36535), (36, 36685), (40, 36760), (43, 36796), (51, 36922),

Gene: Leroy_23 Start: 19387, Stop: 20217, Start Num: 5
Candidate Starts for Leroy_23:
(Start: 4 @19384 has 3 MA's), (Start: 5 @19387 has 13 MA's), (Start: 7 @19414 has 1 MA's), (12, 19474), (14, 19513), (16, 19558), (22, 19672), (23, 19699), (24, 19726), (29, 19768), (32, 19840), (33, 19858), (34, 19867), (37, 19939), (39, 19969), (45, 20098), (46, 20113), (49, 20140),

Gene: OneUp_44 Start: 29381, Stop: 30328, Start Num: 5
Candidate Starts for OneUp_44:
(Start: 5 @29381 has 13 MA's), (Start: 7 @29408 has 1 MA's), (8, 29420), (9, 29426), (13, 29492), (14, 29507), (16, 29552), (21, 29663), (23, 29693), (30, 29762), (31, 29813), (41, 29957), (55, 30179), (59, 30233),

Gene: Pepperoni_19 Start: 17529, Stop: 18416, Start Num: 11
Candidate Starts for Pepperoni_19:
(3, 17424), (Start: 5 @17460 has 13 MA's), (Start: 7 @17487 has 1 MA's), (10, 17517), (11, 17529), (12, 17541), (14, 17580), (16, 17625), (28, 17811), (32, 17898), (40, 18033), (42, 18063), (50, 18216),

(56, 18318), (57, 18327), (58, 18333),

Gene: Phistory_24 Start: 20152, Stop: 20982, Start Num: 5
Candidate Starts for Phistory_24:
(Start: 4 @20149 has 3 MA's), (Start: 5 @20152 has 13 MA's), (Start: 7 @20179 has 1 MA's), (12, 20239), (14, 20278), (16, 20323), (22, 20437), (23, 20464), (24, 20491), (29, 20533), (32, 20605), (33, 20623), (34, 20632), (37, 20704), (39, 20734), (45, 20863), (46, 20878), (49, 20905),

Gene: Pleakley_56 Start: 37522, Stop: 38535, Start Num: 5
Candidate Starts for Pleakley_56:
(Start: 5 @37522 has 13 MA's), (Start: 7 @37549 has 1 MA's), (14, 37639), (15, 37675), (17, 37717), (19, 37735), (27, 37870), (31, 37948), (42, 38128), (53, 38305),

Gene: RavenCo17_19 Start: 17994, Stop: 18929, Start Num: 5
Candidate Starts for RavenCo17_19:
(1, 17850), (2, 17868), (3, 17958), (Start: 5 @17994 has 13 MA's), (Start: 7 @18021 has 1 MA's), (10, 18051), (11, 18063), (12, 18075), (14, 18114), (16, 18159), (25, 18318), (32, 18432), (34, 18459), (40, 18567), (42, 18597), (44, 18639), (57, 18843),

Gene: RayTheFireFly_22 Start: 20454, Stop: 21374, Start Num: 5
Candidate Starts for RayTheFireFly_22:
(3, 20418), (Start: 5 @20454 has 13 MA's), (Start: 7 @20481 has 1 MA's), (10, 20511), (11, 20523), (12, 20535), (14, 20574), (16, 20619), (28, 20805), (32, 20892), (40, 21027), (52, 21222), (57, 21321),

Gene: Scuba_56 Start: 37596, Stop: 38609, Start Num: 5
Candidate Starts for Scuba_56:
(Start: 5 @37596 has 13 MA's), (Start: 7 @37623 has 1 MA's), (14, 37713), (15, 37749), (17, 37791), (19, 37809), (27, 37944), (31, 38022), (38, 38151), (42, 38202), (53, 38379),

Gene: Yvonnetastic_48 Start: 33725, Stop: 34624, Start Num: 5
Candidate Starts for Yvonnetastic_48:
(Start: 5 @33725 has 13 MA's), (Start: 7 @33752 has 1 MA's), (12, 33815), (16, 33899), (26, 34046), (29, 34070), (36, 34220), (40, 34295), (43, 34331), (51, 34457),