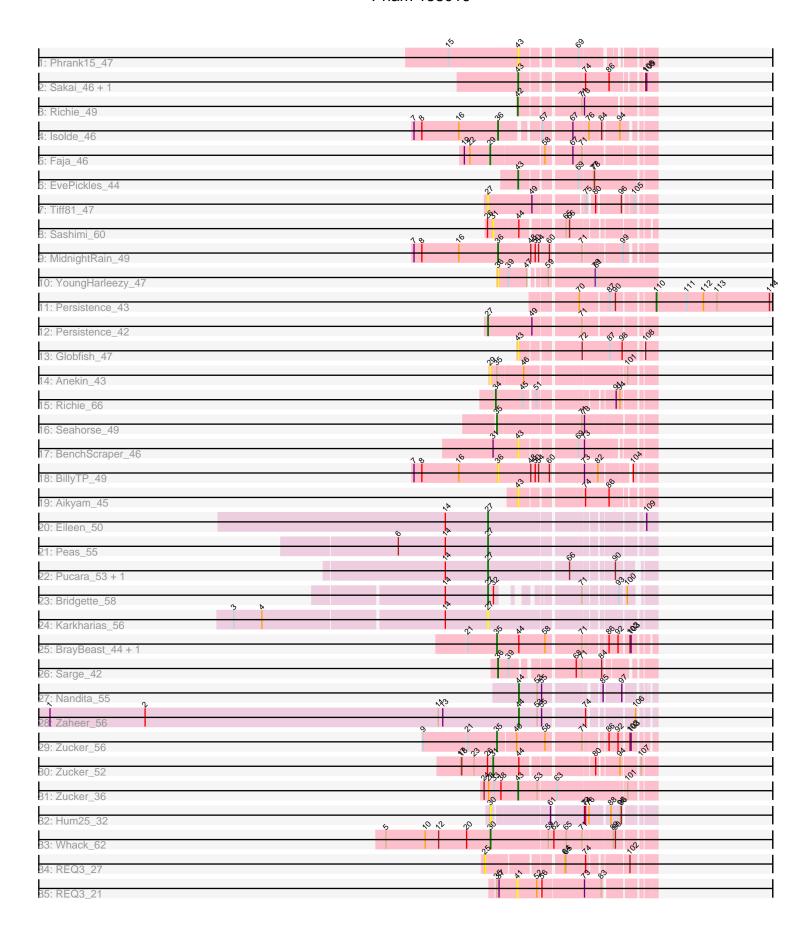# Pham 158019

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 158019 Report

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

Pham number 158019 has 38 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Phrank15_47
• Track 2 : Sakai_46, Gorpy_47
• Track 3 : Richie_49
• Track 4 : Isolde_46
• Track 5 : Faja_46
• Track 6 : EvePickles_44
• Track 7 : Tiff81_47
• Track 8 : Sashimi_60
• Track 9 : MidnightRain_49
• Track 10 : YoungHarleezy_47
• Track 11 : Persistence_43
• Track 12 : Persistence_42
• Track 13 : Globfish_47
• Track 14 : Anekin_43
• Track 15 : Richie_66
• Track 16 : Seahorse_49
• Track 17 : BenchScraper_46
• Track 18 : BillyTP_49
• Track 19 : Aikyam_45
• Track 20 : Eileen_50
• Track 21 : Peas_55
• Track 22 : Pucara_53, PeggyLeg03_56
• Track 23 : Bridgette_58
• Track 24 : Karkharias_56
• Track 25 : BrayBeast_44, Raqqa_54
• Track 26 : Sarge_42
• Track 27 : Nandita_55
• Track 28 : Zaheer_56
• Track 29 : Zucker_56
• Track 30 : Zucker_52
• Track 31 : Zucker_36
• Track 32 : Hum25_32
• Track 33 : Whack_62
• Track 34 : REQ3_27
• Track 35 : REQ3_21

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

The start number called the most often in the published annotations is 27, it was called in 5 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bridgette_58, Eileen_50, Karkharias_56, Peas_55, PeggyLeg03_56, Persistence_42, Pucara_53, Tiff81_47,

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

Genes that do not have the "Most Annotated" start:
• Aikyam_45, Anekin_43, BenchScraper_46, BillyTP_49, BrayBeast_44, EvePickles_44, Faja_46, Globfish_47, Gorpy_47, Hum25_32, Isolde_46, MidnightRain_49, Nandita_55, Persistence_43, Phrank15_47, REQ3_21, REQ3_27, Raqqa_54, Richie_49, Richie_66, Sakai_46, Sarge_42, Sashimi_60, Seahorse_49, Whack_62, YoungHarleezy_47, Zaheer_56, Zucker_36, Zucker_52, Zucker_56,

Summary by start number:

Start 25:
• Found in 1 of 38 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ3_27 (singleton),

Start 27:
• Found in 8 of 38 (21.1%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bridgette_58 (FA), Eileen_50 (FA), Karkharias_56 (FA), Peas_55 (FA), PeggyLeg03_56 (FA), Persistence_42 (AY), Pucara_53 (FA), Tiff81_47 (AY),

Start 29:
• Found in 2 of 38 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_43 (AY), Faja_46 (AY),

Start 30:
• Found in 2 of 38 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_32 (FQ), Whack_62 (singleton),

Start 31:
• Found in 3 of 38 (7.9%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Sashimi_60 (AY), Zucker_52 (FN),

Start 34:
- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Richie_66 (AY),

Start 35:
- Found in 6 of 38 (15.8%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BrayBeast_44 (FB), Raqqa_54 (AY), Seahorse_49 (AY), Zucker_56 (FN),

Start 36:
- Found in 5 of 38 (13.2%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillyTP_49 (AY), Isolde_46 (AY), MidnightRain_49 (AY), Sarge_42 (FB), YoungHarleezy_47 (AY),

Start 41:
- Found in 1 of 38 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ3_21 (singleton),

Start 42:
- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Richie_49 (AY),

Start 43:
- Found in 8 of 38 (21.1%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam_45 (AY), BenchScraper_46 (AY), EvePickles_44 (AY), Globfish_47 (AY), Gorpy_47 (AY), Phrank15_47 (AY), Sakai_46 (AY), Zucker_36 (FN),

Start 44:
- Found in 6 of 38 (15.8%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Nandita_55 (FF), Zaheer_56 (FF),

Start 110:
- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Persistence_43 (AY),

Summary by clusters:

There are 7 clusters represented in this pham: FQ, singleton, FA, FB, FF, AY, FN,

Info for manual annotations of cluster AY:
•Start number 27 was manually annotated 1 time for cluster AY.
•Start number 29 was manually annotated 1 time for cluster AY.
•Start number 34 was manually annotated 1 time for cluster AY.
•Start number 35 was manually annotated 1 time for cluster AY.
•Start number 36 was manually annotated 2 times for cluster AY.
•Start number 42 was manually annotated 1 time for cluster AY.
•Start number 43 was manually annotated 3 times for cluster AY.
•Start number 110 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:
•Start number 27 was manually annotated 4 times for cluster FA.

Info for manual annotations of cluster FB:
•Start number 35 was manually annotated 1 time for cluster FB.
•Start number 36 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:
•Start number 44 was manually annotated 2 times for cluster FF.

Info for manual annotations of cluster FN:
•Start number 31 was manually annotated 1 time for cluster FN.
•Start number 35 was manually annotated 1 time for cluster FN.
•Start number 43 was manually annotated 1 time for cluster FN.

Gene Information:
Gene: Aikyam_45 Start: 27569, Stop: 27871, Start Num: 43
Candidate Starts for Aikyam_45:
(Start: 43 @27569 has 4 MA's), (74, 27716), (86, 27776),

Gene: Anekin_43 Start: 29225, Stop: 29605, Start Num: 29
Candidate Starts for Anekin_43:
(Start: 29 @29225 has 1 MA's), (Start: 35 @29243 has 3 MA's), (46, 29306), (101, 29543),

Gene: BenchScraper_46 Start: 29313, Stop: 29612, Start Num: 43
Candidate Starts for BenchScraper_46:
(Start: 31 @29250 has 1 MA's), (Start: 43 @29313 has 4 MA's), (69, 29445), (73, 29457),

Gene: BillyTP_49 Start: 31109, Stop: 31462, Start Num: 36
Candidate Starts for BillyTP_49:
(7, 30884), (8, 30905), (16, 31004), (Start: 36 @31109 has 3 MA's), (48, 31196), (50, 31208), (54, 31217), (60, 31241), (73, 31319), (82, 31352), (104, 31415),

Gene: BrayBeast_44 Start: 27825, Stop: 28184, Start Num: 35
Candidate Starts for BrayBeast_44:

(21, 27747), (Start: 35 @27825 has 3 MA's), (Start: 44 @27882 has 2 MA's), (58, 27948), (71, 28035), (86, 28086), (92, 28110), (102, 28134), (103, 28137),

Gene: Bridgette_58 Start: 36187, Stop: 36480, Start Num: 27
Candidate Starts for Bridgette_58:
(14, 36073), (Start: 27 @36187 has 5 MA's), (32, 36199), (71, 36340), (93, 36412), (100, 36427),

Gene: Eileen_50 Start: 33209, Stop: 33589, Start Num: 27
Candidate Starts for Eileen_50:
(14, 33095), (Start: 27 @33209 has 5 MA's), (109, 33563),

Gene: EvePickles_44 Start: 30359, Stop: 30676, Start Num: 43
Candidate Starts for EvePickles_44:
(Start: 43 @30359 has 4 MA's), (69, 30491), (77, 30527), (78, 30530),

Gene: Faja_46 Start: 30956, Stop: 31330, Start Num: 29
Candidate Starts for Faja_46:
(19, 30887), (22, 30902), (Start: 29 @30956 has 1 MA's), (58, 31082), (67, 31145), (71, 31169),

Gene: Globfish_47 Start: 29845, Stop: 30156, Start Num: 43
Candidate Starts for Globfish_47:
(Start: 43 @29845 has 4 MA's), (72, 29986), (87, 30052), (98, 30085), (108, 30127),

Gene: Gorpy_47 Start: 30846, Stop: 31148, Start Num: 43
Candidate Starts for Gorpy_47:
(Start: 43 @30846 has 4 MA's), (74, 30993), (86, 31053), (108, 31119), (109, 31122),

Gene: Hum25_32 Start: 23949, Stop: 23587, Start Num: 30
Candidate Starts for Hum25_32:
(Start: 30 @23949 has 1 MA's), (61, 23814), (73, 23739), (74, 23736), (76, 23727), (88, 23679), (95, 23658), (96, 23655),

Gene: Isolde_46 Start: 29682, Stop: 30020, Start Num: 36
Candidate Starts for Isolde_46:
(7, 29457), (8, 29478), (16, 29577), (Start: 36 @29682 has 3 MA's), (57, 29769), (67, 29838), (76, 29877), (84, 29907), (94, 29949),

Gene: Karkharias_56 Start: 35360, Stop: 35740, Start Num: 27
Candidate Starts for Karkharias_56:
(3, 34703), (4, 34778), (14, 35246), (Start: 27 @35360 has 5 MA's),

Gene: MidnightRain_49 Start: 30942, Stop: 31298, Start Num: 36
Candidate Starts for MidnightRain_49:
(7, 30717), (8, 30738), (16, 30837), (Start: 36 @30942 has 3 MA's), (48, 31029), (50, 31041), (54, 31050), (60, 31074), (71, 31149), (99, 31239),

Gene: Nandita_55 Start: 36477, Stop: 36758, Start Num: 44
Candidate Starts for Nandita_55:
(Start: 44 @36477 has 2 MA's), (53, 36525), (55, 36537), (85, 36666), (97, 36705),

Gene: Peas_55 Start: 37101, Stop: 37481, Start Num: 27
Candidate Starts for Peas_55:
(6, 36861), (14, 36987), (Start: 27 @37101 has 5 MA's),

Gene: PeggyLeg03_56 Start: 35841, Stop: 36212, Start Num: 27
Candidate Starts for PeggyLeg03_56:
(14, 35727), (Start: 27 @35841 has 5 MA's), (66, 36039), (90, 36135),

Gene: Persistence_43 Start: 28918, Stop: 29229, Start Num: 110
Candidate Starts for Persistence_43:
(70, 28753), (87, 28819), (90, 28834), (Start: 110 @28918 has 1 MA's), (111, 28999), (112, 29044),
(113, 29080), (114, 29221),

Gene: Persistence_42 Start: 28529, Stop: 28921, Start Num: 27
Candidate Starts for Persistence_42:
(Start: 27 @28529 has 5 MA's), (49, 28643), (71, 28760),

Gene: Phrank15_47 Start: 29454, Stop: 29732, Start Num: 43
Candidate Starts for Phrank15_47:
(15, 29268), (Start: 43 @29454 has 4 MA's), (69, 29586),

Gene: Pucara_53 Start: 35446, Stop: 35817, Start Num: 27
Candidate Starts for Pucara_53:
(14, 35332), (Start: 27 @35446 has 5 MA's), (66, 35644), (90, 35740),

Gene: REQ3_27 Start: 12625, Stop: 12996, Start Num: 25
Candidate Starts for REQ3_27:
(25, 12625), (64, 12799), (65, 12802), (74, 12850), (102, 12940),

Gene: REQ3_21 Start: 9467, Stop: 9787, Start Num: 41
Candidate Starts for REQ3_21:
(Start: 35 @9416 has 3 MA's), (37, 9422), (41, 9467), (52, 9515), (56, 9524), (73, 9629), (83, 9674),

Gene: Raqqa_54 Start: 31854, Stop: 32213, Start Num: 35
Candidate Starts for Raqqa_54:
(21, 31776), (Start: 35 @31854 has 3 MA's), (Start: 44 @31911 has 2 MA's), (58, 31977), (71, 32064),
(86, 32115), (92, 32139), (102, 32163), (103, 32166),

Gene: Richie_49 Start: 30530, Stop: 30829, Start Num: 42
Candidate Starts for Richie_49:
(Start: 42 @30530 has 1 MA's), (71, 30671), (73, 30674),

Gene: Richie_66 Start: 35688, Stop: 36038, Start Num: 34
Candidate Starts for Richie_66:
(Start: 34 @35688 has 1 MA's), (45, 35757), (51, 35784), (91, 35952), (94, 35961),

Gene: Sakai_46 Start: 29557, Stop: 29859, Start Num: 43
Candidate Starts for Sakai_46:
(Start: 43 @29557 has 4 MA's), (74, 29704), (86, 29764), (108, 29830), (109, 29833),

Gene: Sarge_42 Start: 26531, Stop: 26854, Start Num: 36
Candidate Starts for Sarge_42:
(Start: 36 @26531 has 3 MA's), (39, 26558), (68, 26690), (71, 26705), (84, 26747),

Gene: Sashimi_60 Start: 34705, Stop: 35055, Start Num: 31
Candidate Starts for Sashimi_60:

(26, 34690), (Start: 31 @34705 has 1 MA's), (Start: 44 @34768 has 2 MA's), (65, 34864), (66, 34873),

Gene: Seahorse_49 Start: 31759, Stop: 32121, Start Num: 35
Candidate Starts for Seahorse_49:
(Start: 35 @31759 has 3 MA's), (71, 31954), (73, 31957),

Gene: Tiff81_47 Start: 27821, Stop: 28186, Start Num: 27
Candidate Starts for Tiff81_47:
(Start: 27 @27821 has 5 MA's), (49, 27935), (75, 28052), (80, 28067), (96, 28121), (105, 28142),

Gene: Whack_62 Start: 41425, Stop: 41829, Start Num: 30
Candidate Starts for Whack_62:
(5, 41146), (10, 41251), (12, 41287), (20, 41362), (Start: 30 @41425 has 1 MA's), (59, 41575), (62, 41590), (65, 41623), (71, 41665), (89, 41737), (90, 41743),

Gene: YoungHarleezy_47 Start: 30135, Stop: 30518, Start Num: 36
Candidate Starts for YoungHarleezy_47:
(Start: 36 @30135 has 3 MA's), (39, 30162), (47, 30210), (59, 30240), (79, 30354), (81, 30357),

Gene: Zaheer_56 Start: 37545, Stop: 37838, Start Num: 44
Candidate Starts for Zaheer_56:
(1, 36288), (2, 36543), (11, 37329), (13, 37341), (Start: 44 @37545 has 2 MA's), (53, 37593), (55, 37605), (74, 37707), (106, 37803),

Gene: Zucker_56 Start: 33964, Stop: 34314, Start Num: 35
Candidate Starts for Zucker_56:
(9, 33772), (21, 33886), (Start: 35 @33964 has 3 MA's), (40, 34009), (58, 34078), (71, 34165), (86, 34216), (92, 34240), (102, 34264), (103, 34267),

Gene: Zucker_52 Start: 33035, Stop: 33385, Start Num: 31
Candidate Starts for Zucker_52:
(17, 32948), (18, 32951), (23, 32984), (26, 33020), (Start: 31 @33035 has 1 MA's), (Start: 44 @33098 has 2 MA's), (80, 33263), (94, 33308), (107, 33350),

Gene: Zucker_36 Start: 27843, Stop: 28172, Start Num: 43
Candidate Starts for Zucker_36:
(24, 27753), (28, 27765), (33, 27780), (38, 27798), (Start: 43 @27843 has 4 MA's), (53, 27891), (63, 27939), (101, 28110),