Pham 163789


1: SkiPole_43
2: Niklas_64 + 2
3: Oscar_66 + 4
4: Efra2_67 + 3
5: Nibb_64
6: Validus_66
7: Pixie_61
8: TribleTrouble_62 + 1
9: ShedlockHolmes_63
10: MacnCheese_64
11: Hurricane_62
12: Pharb_61
13: Unicorn_63 + 1
14: Sunflower1121_67 + 1
15: Yuna_67
16: Ximenita_67
17: Phrank_65 + 3
18: Krueger_66
19: SirPhilip_63
20: Syra333_65

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 163789 Report

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

Pham number 163789 has 35 members, 0 are drafts.

Phages represented in each track:
- Track 1 : SkiPole_43
- Track 2 : Niklas_64, Shaobing_64, Peanam_64
- Track 3 : Oscar_66, MarkPhew_65, KiSi_67, LeMond_66, Scarlett_67
- Track 4 : Efra2_67, Guanica15_66, Yunkel11_66, LastHope_66
- Track 5 : Nibb_64
- Track 6 : Validus_66
- Track 7 : Pixie_61
- Track 8 : TribleTrouble_62, Keshu_64
- Track 9 : ShedlockHolmes_63
- Track 10 : MacnCheese_64
- Track 11 : Hurricane_62
- Track 12 : Pharb_61
- Track 13 : Unicorn_63, PhelpsODU_63
- Track 14 : Sunflower1121_67, Shadow1_66
- Track 15 : Yuna_67
- Track 16 : Ximenita_67
- Track 17 : Phrank_65, Tierra_65, Cain_65, Bryler_65
- Track 18 : Krueger_66
- Track 19 : SirPhilip_63
- Track 20 : Syra333_65

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

The start number called the most often in the published annotations is 9, it was called in 31 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Bryler_65, Cain_65, Efra2_67, Guanica15_66, Keshu_64, KiSi_67, Krueger_66, LastHope_66, LeMond_66, MacnCheese_64, MarkPhew_65, Nibb_64, Niklas_64, Oscar_66, Peanam_64, Pharb_61, PhelpsODU_63, Phrank_65, Scarlett_67, Shadow1_66, Shaobing_64, SirPhilip_63, Sunflower1121_67, Syra333_65, Tierra_65, TribleTrouble_62, Unicorn_63, Validus_66, Ximenita_67, Yuna_67, Yunkel11_66,

Genes that have the "Most Annotated" start but do not call it:
• Hurricane_62, Pixie_61, ShedlockHolmes_63,

Genes that do not have the "Most Annotated" start:
• SkiPole_43,

Summary by start number:

Start 7:
• Found in 28 of 35 (80.0%) of genes in pham
• Manual Annotations of this start: 2 of 35
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Pixie_61 (K3), ShedlockHolmes_63 (K3),

Start 8:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hurricane_62 (K3),

Start 9:
• Found in 34 of 35 (97.1%) of genes in pham
• Manual Annotations of this start: 31 of 35
• Called 91.2% of time when present
• Phage (with cluster) where this start called: Bryler_65 (K6), Cain_65 (K6), Efra2_67 (K1), Guanica15_66 (K1), Keshu_64 (K3), KiSi_67 (K1), Krueger_66 (K6), LastHope_66 (K1), LeMond_66 (K1), MacnCheese_64 (K3), MarkPhew_65 (K1), Nibb_64 (K1), Niklas_64 (K1), Oscar_66 (K1), Peanam_64 (K1), Pharb_61 (K3), PhelpsODU_63 (K6), Phrank_65 (K6), Scarlett_67 (K1), Shadow1_66 (K6), Shaobing_64 (K1), SirPhilip_63 (K6), Sunflower1121_67 (K6), Syra333_65 (K6), Tierra_65 (K6), TribleTrouble_62 (K3), Unicorn_63 (K6), Validus_66 (K1), Ximenita_67 (K6), Yuna_67 (K6), Yunkel11_66 (K1),

Start 10:
• Found in 5 of 35 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 20.0% of time when present
• Phage (with cluster) where this start called: SkiPole_43 (A1),

Summary by clusters:

There are 4 clusters represented in this pham: K3, A1, K1, K6,

Info for manual annotations of cluster A1:
•Start number 10 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster K1:
•Start number 9 was manually annotated 14 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 7 was manually annotated 2 times for cluster K3.
•Start number 8 was manually annotated 1 time for cluster K3.

•Start number 9 was manually annotated 4 times for cluster K3.

Info for manual annotations of cluster K6:
•Start number 9 was manually annotated 13 times for cluster K6.

Gene Information:

Gene: Bryler_65 Start: 41993, Stop: 42184, Start Num: 9
Candidate Starts for Bryler_65:
(Start: 7 @41963 has 2 MA's), (Start: 9 @41993 has 31 MA's), (11, 42029), (13, 42083),

Gene: Cain_65 Start: 41981, Stop: 42172, Start Num: 9
Candidate Starts for Cain_65:
(Start: 7 @41951 has 2 MA's), (Start: 9 @41981 has 31 MA's), (11, 42017), (13, 42071),

Gene: Efra2_67 Start: 42478, Stop: 42672, Start Num: 9
Candidate Starts for Efra2_67:
(Start: 9 @42478 has 31 MA's), (12, 42538),

Gene: Guanica15_66 Start: 42219, Stop: 42413, Start Num: 9
Candidate Starts for Guanica15_66:
(Start: 9 @42219 has 31 MA's), (12, 42279),

Gene: Hurricane_62 Start: 42432, Stop: 42641, Start Num: 8
Candidate Starts for Hurricane_62:
(Start: 7 @42420 has 2 MA's), (Start: 8 @42432 has 1 MA's), (Start: 9 @42450 has 31 MA's),

Gene: Keshu_64 Start: 42548, Stop: 42739, Start Num: 9
Candidate Starts for Keshu_64:
(Start: 7 @42518 has 2 MA's), (Start: 9 @42548 has 31 MA's),

Gene: KiSi_67 Start: 43442, Stop: 43639, Start Num: 9
Candidate Starts for KiSi_67:
(Start: 7 @43412 has 2 MA's), (Start: 9 @43442 has 31 MA's), (13, 43529),

Gene: Krueger_66 Start: 42279, Stop: 42470, Start Num: 9
Candidate Starts for Krueger_66:
(1, 42165), (4, 42210), (6, 42240), (Start: 7 @42249 has 2 MA's), (Start: 9 @42279 has 31 MA's), (11, 42315), (13, 42369),

Gene: LastHope_66 Start: 41540, Stop: 41734, Start Num: 9
Candidate Starts for LastHope_66:
(Start: 9 @41540 has 31 MA's), (12, 41600),

Gene: LeMond_66 Start: 43076, Stop: 43273, Start Num: 9
Candidate Starts for LeMond_66:
(Start: 7 @43046 has 2 MA's), (Start: 9 @43076 has 31 MA's), (13, 43163),

Gene: MacnCheese_64 Start: 43048, Stop: 43242, Start Num: 9
Candidate Starts for MacnCheese_64:
(Start: 9 @43048 has 31 MA's),

Gene: MarkPhew_65 Start: 42579, Stop: 42773, Start Num: 9
Candidate Starts for MarkPhew_65:
(Start: 7 @42549 has 2 MA's), (Start: 9 @42579 has 31 MA's), (13, 42663),

Gene: Nibb_64 Start: 42433, Stop: 42618, Start Num: 9
Candidate Starts for Nibb_64:
(3, 42358), (Start: 7 @42403 has 2 MA's), (Start: 9 @42433 has 31 MA's), (13, 42514),

Gene: Niklas_64 Start: 42666, Stop: 42860, Start Num: 9
Candidate Starts for Niklas_64:
(Start: 7 @42636 has 2 MA's), (Start: 9 @42666 has 31 MA's), (Start: 10 @42681 has 1 MA's),

Gene: Oscar_66 Start: 42993, Stop: 43190, Start Num: 9
Candidate Starts for Oscar_66:
(Start: 7 @42963 has 2 MA's), (Start: 9 @42993 has 31 MA's), (13, 43080),

Gene: Peanam_64 Start: 42624, Stop: 42818, Start Num: 9
Candidate Starts for Peanam_64:
(Start: 7 @42594 has 2 MA's), (Start: 9 @42624 has 31 MA's), (Start: 10 @42639 has 1 MA's),

Gene: Pharb_61 Start: 41781, Stop: 41975, Start Num: 9
Candidate Starts for Pharb_61:
(Start: 7 @41751 has 2 MA's), (Start: 9 @41781 has 31 MA's), (11, 41817), (13, 41871),

Gene: PhelpsODU_63 Start: 41907, Stop: 42098, Start Num: 9
Candidate Starts for PhelpsODU_63:
(2, 41829), (Start: 7 @41877 has 2 MA's), (Start: 9 @41907 has 31 MA's), (11, 41943), (13, 41997),

Gene: Phrank_65 Start: 41971, Stop: 42162, Start Num: 9
Candidate Starts for Phrank_65:
(Start: 7 @41941 has 2 MA's), (Start: 9 @41971 has 31 MA's), (11, 42007), (13, 42061),

Gene: Pixie_61 Start: 41940, Stop: 42161, Start Num: 7
Candidate Starts for Pixie_61:
(Start: 7 @41940 has 2 MA's), (Start: 9 @41970 has 31 MA's),

Gene: Scarlett_67 Start: 43320, Stop: 43517, Start Num: 9
Candidate Starts for Scarlett_67:
(Start: 7 @43290 has 2 MA's), (Start: 9 @43320 has 31 MA's), (13, 43407),

Gene: Shadow1_66 Start: 42432, Stop: 42623, Start Num: 9
Candidate Starts for Shadow1_66:
(6, 42393), (Start: 7 @42402 has 2 MA's), (Start: 9 @42432 has 31 MA's), (11, 42468), (13, 42522),

Gene: Shaobing_64 Start: 42642, Stop: 42836, Start Num: 9
Candidate Starts for Shaobing_64:
(Start: 7 @42612 has 2 MA's), (Start: 9 @42642 has 31 MA's), (Start: 10 @42657 has 1 MA's),

Gene: ShedlockHolmes_63 Start: 42459, Stop: 42680, Start Num: 7
Candidate Starts for ShedlockHolmes_63:
(Start: 7 @42459 has 2 MA's), (Start: 9 @42489 has 31 MA's),

Gene: SirPhilip_63 Start: 43069, Stop: 43278, Start Num: 9
Candidate Starts for SirPhilip_63:
(Start: 9 @43069 has 31 MA's), (11, 43105), (13, 43159),

Gene: SkiPole_43 Start: 32265, Stop: 32086, Start Num: 10
Candidate Starts for SkiPole_43:
(Start: 10 @32265 has 1 MA's), (12, 32217), (13, 32184),

Gene: Sunflower1121_67 Start: 42578, Stop: 42769, Start Num: 9
Candidate Starts for Sunflower1121_67:
(6, 42539), (Start: 7 @42548 has 2 MA's), (Start: 9 @42578 has 31 MA's), (11, 42614), (13, 42668),

Gene: Syra333_65 Start: 42291, Stop: 42482, Start Num: 9
Candidate Starts for Syra333_65:
(Start: 7 @42261 has 2 MA's), (Start: 9 @42291 has 31 MA's), (11, 42327),

Gene: Tierra_65 Start: 42782, Stop: 42973, Start Num: 9
Candidate Starts for Tierra_65:
(Start: 7 @42752 has 2 MA's), (Start: 9 @42782 has 31 MA's), (11, 42818), (13, 42872),

Gene: TribleTrouble_62 Start: 42947, Stop: 43141, Start Num: 9
Candidate Starts for TribleTrouble_62:
(Start: 7 @42917 has 2 MA's), (Start: 9 @42947 has 31 MA's),

Gene: Unicorn_63 Start: 41907, Stop: 42098, Start Num: 9
Candidate Starts for Unicorn_63:
(2, 41829), (Start: 7 @41877 has 2 MA's), (Start: 9 @41907 has 31 MA's), (11, 41943), (13, 41997),

Gene: Validus_66 Start: 42988, Stop: 43194, Start Num: 9
Candidate Starts for Validus_66:
(Start: 7 @42958 has 2 MA's), (Start: 9 @42988 has 31 MA's), (Start: 10 @43003 has 1 MA's),

Gene: Ximenita_67 Start: 42617, Stop: 42808, Start Num: 9
Candidate Starts for Ximenita_67:
(5, 42566), (Start: 7 @42587 has 2 MA's), (Start: 9 @42617 has 31 MA's), (11, 42653), (13, 42707), (14, 42740),

Gene: Yuna_67 Start: 43685, Stop: 43879, Start Num: 9
Candidate Starts for Yuna_67:
(Start: 7 @43655 has 2 MA's), (Start: 9 @43685 has 31 MA's), (13, 43775),

Gene: Yunkel11_66 Start: 42224, Stop: 42418, Start Num: 9
Candidate Starts for Yunkel11_66:
(Start: 9 @42224 has 31 MA's), (12, 42284),