Pham 291258

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 291258 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291258 has 50 members, 3 are drafts.

Phages represented in each track:
• Track 1 : LaterM_26
• Track 2 : Stinson_26
• Track 3 : Strobilo_22, Findley_22
• Track 4 : DismalStressor_22, DismalFunk_22, Marcoliusprime_22
• Track 5 : BoostSeason_22, Mufasa_22, Doughnut_22
• Track 6 : Milly_22
• Track 7 : ZoeJ_22
• Track 8 : TM4_22
• Track 9 : TBond007_25
• Track 10 : Pixie_25
• Track 11 : Keshu_25
• Track 12 : MacnCheese_26
• Track 13 : Hurricane_25
• Track 14 : Lea83_25, ShedlockHolmes_25
• Track 15 : Pharb_25
• Track 16 : TribleTrouble_24
• Track 17 : Reptar3000_27
• Track 18 : YasnayaPolyana_27, Fionnbharth_27, Y2_27, Kraw_27, Cheetobro_27, OmniCritical_27, MissDaisy_27, SamScheppers_25, Chancellor_27, Malthus_28, Slarp_27, Lebo14_27, Taquito_25, Bobquesha_28, JF1_27, Y10_27, Patt_27, Mitti_27, Wintermute_27, Qhanda_28
• Track 19 : DanSyl44_28
• Track 20 : Ruthiejr_26, Eponine_27, Juliette_27
• Track 21 : Aminay_24
• Track 22 : Boilgate_23
• Track 23 : P3MA_21

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

The start number called the most often in the published annotations is 19, it was called in 45 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aminay_24, Bobquesha_28, Boilgate_23, BoostSeason_22, Chancellor_27, Cheetobro_27, DanSyl44_28, DismalFunk_22, DismalStressor_22, Doughnut_22, Eponine_27, Findley_22, Fionnbharth_27, Hurricane_25, JF1_27, Juliette_27, Keshu_25, Kraw_27, LaterM_26, Lea83_25, Lebo14_27, MacnCheese_26, Malthus_28, Marcoliusprime_22, Milly_22, MissDaisy_27, Mitti_27, Mufasa_22, OmniCritical_27, Patt_27, Pharb_25, Pixie_25, Qhanda_28, Reptar3000_27, Ruthiejr_26, SamScheppers_25, ShedlockHolmes_25, Slarp_27, Strobilo_22, TBond007_25, TM4_22, Taquito_25, TribleTrouble_24, Wintermute_27, Y10_27, Y2_27, YasnayaPolyana_27, ZoeJ_22,

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

Genes that do not have the "Most Annotated" start:
• P3MA_21, Stinson_26,

Summary by start number:

Start 17:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 47
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P3MA_21 (singleton),

Start 18:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 47
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stinson_26 (K1),

Start 19:
• Found in 48 of 50 (96.0%) of genes in pham
• Manual Annotations of this start: 45 of 47
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_24 (K7), Bobquesha_28 (K4), Boilgate_23 (K8), BoostSeason_22 (K2), Chancellor_27 (K4), Cheetobro_27 (K4), DanSyl44_28 (K4), DismalFunk_22 (K2), DismalStressor_22 (K2), Doughnut_22 (K2), Eponine_27 (K4), Findley_22 (K2), Fionnbharth_27 (K4), Hurricane_25 (K3), JF1_27 (K4), Juliette_27 (K4), Keshu_25 (K3), Kraw_27 (K4), LaterM_26 (K1), Lea83_25 (K3), Lebo14_27 (K4), MacnCheese_26 (K3), Malthus_28 (K4), Marcoliusprime_22 (K2), Milly_22 (K2), MissDaisy_27 (K4), Mitti_27 (K4), Mufasa_22 (K2), OmniCritical_27 (K4), Patt_27 (K4), Pharb_25 (K3), Pixie_25 (K3), Qhanda_28 (K4), Reptar3000_27 (K4), Ruthiejr_26 (K4), SamScheppers_25 (K4), ShedlockHolmes_25 (K3), Slarp_27 (K4), Strobilo_22 (K2), TBond007_25 (K3), TM4_22 (K2), Taquito_25 (K4), TribleTrouble_24 (K3), Wintermute_27 (K4), Y10_27 (K4), Y2_27 (K4), YasnayaPolyana_27 (K4), ZoeJ_22 (K2),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, K3, K2, K1, K7, K4, K8,

Info for manual annotations of cluster K1:
•Start number 18 was manually annotated 1 time for cluster K1.

•Start number 19 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:
•Start number 19 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 19 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 19 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K7:
•Start number 19 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 19 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: Aminay_24 Start: 20780, Stop: 21034, Start Num: 19
Candidate Starts for Aminay_24:
(Start: 19 @20780 has 45 MA's), (22, 20810), (28, 20897), (32, 20939), (39, 21008),

Gene: Bobquesha_28 Start: 21779, Stop: 22024, Start Num: 19
Candidate Starts for Bobquesha_28:
(Start: 19 @21779 has 45 MA's), (39, 22007),

Gene: Boilgate_23 Start: 20959, Stop: 21213, Start Num: 19
Candidate Starts for Boilgate_23:
(6, 20728), (Start: 19 @20959 has 45 MA's), (21, 20986), (23, 21019), (31, 21103),

Gene: BoostSeason_22 Start: 18449, Stop: 18703, Start Num: 19
Candidate Starts for BoostSeason_22:
(8, 18308), (16, 18437), (Start: 19 @18449 has 45 MA's), (22, 18479), (28, 18566), (39, 18677),

Gene: Chancellor_27 Start: 22045, Stop: 22290, Start Num: 19
Candidate Starts for Chancellor_27:
(Start: 19 @22045 has 45 MA's), (39, 22273),

Gene: Cheetobro_27 Start: 22042, Stop: 22287, Start Num: 19
Candidate Starts for Cheetobro_27:
(Start: 19 @22042 has 45 MA's), (39, 22270),

Gene: DanSyl44_28 Start: 22048, Stop: 22293, Start Num: 19
Candidate Starts for DanSyl44_28:
(Start: 19 @22048 has 45 MA's), (39, 22276),

Gene: DismalFunk_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for DismalFunk_22:
(8, 18282), (16, 18411), (Start: 19 @18423 has 45 MA's), (22, 18453), (28, 18540), (39, 18651),

Gene: DismalStressor_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for DismalStressor_22:
(8, 18282), (16, 18411), (Start: 19 @18423 has 45 MA's), (22, 18453), (28, 18540), (39, 18651),

Gene: Doughnut_22 Start: 18443, Stop: 18697, Start Num: 19
Candidate Starts for Doughnut_22:
(8, 18302), (16, 18431), (Start: 19 @18443 has 45 MA's), (22, 18473), (28, 18560), (39, 18671),

Gene: Eponine_27 Start: 21935, Stop: 22180, Start Num: 19
Candidate Starts for Eponine_27:
(Start: 19 @21935 has 45 MA's),

Gene: Findley_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for Findley_22:
(Start: 19 @18423 has 45 MA's), (22, 18453), (23, 18483), (28, 18540), (39, 18651),

Gene: Fionnbharth_27 Start: 22035, Stop: 22280, Start Num: 19
Candidate Starts for Fionnbharth_27:
(Start: 19 @22035 has 45 MA's), (39, 22263),

Gene: Hurricane_25 Start: 21014, Stop: 21331, Start Num: 19
Candidate Starts for Hurricane_25:
(Start: 19 @21014 has 45 MA's), (31, 21158), (35, 21203), (36, 21209), (45, 21308),

Gene: JF1_27 Start: 22034, Stop: 22279, Start Num: 19
Candidate Starts for JF1_27:
(Start: 19 @22034 has 45 MA's), (39, 22262),

Gene: Juliette_27 Start: 21935, Stop: 22180, Start Num: 19
Candidate Starts for Juliette_27:
(Start: 19 @21935 has 45 MA's),

Gene: Keshu_25 Start: 21006, Stop: 21314, Start Num: 19
Candidate Starts for Keshu_25:
(Start: 19 @21006 has 45 MA's), (30, 21147), (35, 21195), (36, 21201), (44, 21288), (45, 21300),

Gene: Kraw_27 Start: 21958, Stop: 22203, Start Num: 19
Candidate Starts for Kraw_27:
(Start: 19 @21958 has 45 MA's), (39, 22186),

Gene: LaterM_26 Start: 20549, Stop: 20809, Start Num: 19
Candidate Starts for LaterM_26:
(5, 20258), (7, 20336), (9, 20402), (10, 20459), (11, 20462), (13, 20507), (Start: 19 @20549 has 45 MA's), (24, 20615), (25, 20621), (29, 20678), (39, 20783), (41, 20798),

Gene: Lea83_25 Start: 20994, Stop: 21302, Start Num: 19
Candidate Starts for Lea83_25:
(Start: 19 @20994 has 45 MA's), (30, 21135), (35, 21183), (36, 21189), (45, 21288),

Gene: Lebo14_27 Start: 22051, Stop: 22296, Start Num: 19
Candidate Starts for Lebo14_27:
(Start: 19 @22051 has 45 MA's), (39, 22279),

Gene: MacnCheese_26 Start: 21248, Stop: 21556, Start Num: 19
Candidate Starts for MacnCheese_26:
(2, 20759), (3, 20891), (Start: 19 @21248 has 45 MA's), (22, 21278), (35, 21437), (36, 21443), (45, 21542),

Gene: Malthus_28 Start: 21958, Stop: 22203, Start Num: 19
Candidate Starts for Malthus_28:
(Start: 19 @21958 has 45 MA's), (39, 22186),

Gene: Marcoliusprime_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for Marcoliusprime_22:
(8, 18282), (16, 18411), (Start: 19 @18423 has 45 MA's), (22, 18453), (28, 18540), (39, 18651),

Gene: Milly_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for Milly_22:
(8, 18282), (12, 18372), (16, 18411), (Start: 19 @18423 has 45 MA's), (22, 18453), (28, 18540), (39, 18651),

Gene: MissDaisy_27 Start: 21797, Stop: 22042, Start Num: 19
Candidate Starts for MissDaisy_27:
(Start: 19 @21797 has 45 MA's), (39, 22025),

Gene: Mitti_27 Start: 21958, Stop: 22203, Start Num: 19
Candidate Starts for Mitti_27:
(Start: 19 @21958 has 45 MA's), (39, 22186),

Gene: Mufasa_22 Start: 18443, Stop: 18697, Start Num: 19
Candidate Starts for Mufasa_22:
(8, 18302), (16, 18431), (Start: 19 @18443 has 45 MA's), (22, 18473), (28, 18560), (39, 18671),

Gene: OmniCritical_27 Start: 21943, Stop: 22188, Start Num: 19
Candidate Starts for OmniCritical_27:
(Start: 19 @21943 has 45 MA's), (39, 22171),

Gene: P3MA_21 Start: 17693, Stop: 17974, Start Num: 17
Candidate Starts for P3MA_21:
(14, 17678), (15, 17681), (Start: 17 @17693 has 1 MA's), (20, 17723), (22, 17729), (25, 17771), (27, 17780), (32, 17867), (33, 17891), (34, 17894), (38, 17927), (40, 17951),

Gene: Patt_27 Start: 21776, Stop: 22021, Start Num: 19
Candidate Starts for Patt_27:
(Start: 19 @21776 has 45 MA's), (39, 22004),

Gene: Pharb_25 Start: 20852, Stop: 21169, Start Num: 19
Candidate Starts for Pharb_25:
(1, 20342), (2, 20363), (3, 20495), (4, 20567), (Start: 19 @20852 has 45 MA's), (28, 20969), (42, 21098),

Gene: Pixie_25 Start: 20785, Stop: 21102, Start Num: 19
Candidate Starts for Pixie_25:
(Start: 19 @20785 has 45 MA's), (35, 20974), (36, 20980),

Gene: Qhanda_28 Start: 22054, Stop: 22299, Start Num: 19

Candidate Starts for Qhanda_28:
(Start: 19 @22054 has 45 MA's), (39, 22282),

Gene: Reptar3000_27 Start: 21775, Stop: 22020, Start Num: 19
Candidate Starts for Reptar3000_27:
(Start: 19 @21775 has 45 MA's), (28, 21892), (31, 21919), (39, 22003),

Gene: Ruthiejr_26 Start: 21666, Stop: 21911, Start Num: 19
Candidate Starts for Ruthiejr_26:
(Start: 19 @21666 has 45 MA's),

Gene: SamScheppers_25 Start: 21573, Stop: 21818, Start Num: 19
Candidate Starts for SamScheppers_25:
(Start: 19 @21573 has 45 MA's), (39, 21801),

Gene: ShedlockHolmes_25 Start: 20994, Stop: 21302, Start Num: 19
Candidate Starts for ShedlockHolmes_25:
(Start: 19 @20994 has 45 MA's), (30, 21135), (35, 21183), (36, 21189), (45, 21288),

Gene: Slarp_27 Start: 22045, Stop: 22290, Start Num: 19
Candidate Starts for Slarp_27:
(Start: 19 @22045 has 45 MA's), (39, 22273),

Gene: Stinson_26 Start: 20535, Stop: 20807, Start Num: 18
Candidate Starts for Stinson_26:
(Start: 18 @20535 has 1 MA's), (22, 20574), (25, 20616), (26, 20622), (34, 20736), (37, 20760),

Gene: Strobilo_22 Start: 18423, Stop: 18677, Start Num: 19
Candidate Starts for Strobilo_22:
(Start: 19 @18423 has 45 MA's), (22, 18453), (23, 18483), (28, 18540), (39, 18651),

Gene: TBond007_25 Start: 20784, Stop: 21101, Start Num: 19
Candidate Starts for TBond007_25:
(Start: 19 @20784 has 45 MA's), (35, 20973), (36, 20979), (45, 21078),

Gene: TM4_22 Start: 18489, Stop: 18743, Start Num: 19
Candidate Starts for TM4_22:
(Start: 19 @18489 has 45 MA's), (22, 18519), (23, 18549), (27, 18564), (28, 18606), (39, 18717),

Gene: Taquito_25 Start: 21654, Stop: 21899, Start Num: 19
Candidate Starts for Taquito_25:
(Start: 19 @21654 has 45 MA's), (39, 21882),

Gene: TribleTrouble_24 Start: 20821, Stop: 21129, Start Num: 19
Candidate Starts for TribleTrouble_24:
(Start: 19 @20821 has 45 MA's), (31, 20965), (36, 21016), (43, 21073), (45, 21115),

Gene: Wintermute_27 Start: 22034, Stop: 22279, Start Num: 19
Candidate Starts for Wintermute_27:
(Start: 19 @22034 has 45 MA's), (39, 22262),

Gene: Y10_27 Start: 22034, Stop: 22279, Start Num: 19
Candidate Starts for Y10_27:

(Start: 19 @22034 has 45 MA's), (39, 22262),

Gene: Y2_27 Start: 22034, Stop: 22279, Start Num: 19
Candidate Starts for Y2_27:
(Start: 19 @22034 has 45 MA's), (39, 22262),

Gene: YasnayaPolyana_27 Start: 22035, Stop: 22280, Start Num: 19
Candidate Starts for YasnayaPolyana_27:
(Start: 19 @22035 has 45 MA's), (39, 22263),

Gene: ZoeJ_22 Start: 18364, Stop: 18618, Start Num: 19
Candidate Starts for ZoeJ_22:
(16, 18352), (Start: 19 @18364 has 45 MA's), (22, 18394), (28, 18481), (39, 18592),