Pham 291341

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 291341 Report

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

Pham number 291341 has 38 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Satrap_24, Shukran_24
• Track 2 : NewKitty_25, DarwinJr_27, Anekin_23, Crescenzo_24
• Track 3 : JellyBread_24, Lawnathon_24, SonDevVon_23, Mapleville_24, Gorpy_24, BillyTP_24, AdaS_24, Vopal_25, Sporco_25, Raphaella_24, MUWow_23, Sakai_24, Phrank15_23, Isolde_24
• Track 4 : Tiff81_25, Nyilah_23, GumGum_24, Kabloowy_24
• Track 5 : Raqqa_21
• Track 6 : CosmicBrownie_24
• Track 7 : Ding_24
• Track 8 : Seahorse_25, Hestia_24
• Track 9 : MurphyJoseph_24
• Track 10 : Bhageatrice_26
• Track 11 : ThayneTheZag_24
• Track 12 : AbbyDaisy_21
• Track 13 : ChuckDuck_23
• Track 14 : RootBeer_19
• Track 15 : KayMoney_23
• Track 16 : Henrique_23
• Track 17 : LittleRon_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 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_21, AdaS_24, Anekin_23, Bhageatrice_26, BillyTP_24, ChuckDuck_23, CosmicBrownie_24, Crescenzo_24, DarwinJr_27, Gorpy_24, GumGum_24, Hestia_24, Isolde_24, JellyBread_24, Kabloowy_24, KayMoney_23, Lawnathon_24, LittleRon_23, MUWow_23, Mapleville_24, NewKitty_25, Nyilah_23, Phrank15_23, Raphaella_24, Raqqa_21, RootBeer_19, Sakai_24, Satrap_24, Seahorse_25, Shukran_24, SonDevVon_23, Sporco_25, ThayneTheZag_24, Tiff81_25, Vopal_25,

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

• MurphyJoseph_24,

Genes that do not have the "Most Annotated" start:
• Ding_24, Henrique_23,

Summary by start number:

Start 5:
• Found in 36 of 38 (94.7%) of genes in pham
• Manual Annotations of this start: 20 of 20
• Called 97.2% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_21 (AY), AdaS_24 (AY), Anekin_23 (AY), Bhageatrice_26 (AY), BillyTP_24 (AY), ChuckDuck_23 (FA), CosmicBrownie_24 (AY), Crescenzo_24 (AY), DarwinJr_27 (AY), Gorpy_24 (AY), GumGum_24 (AY), Hestia_24 (AY), Isolde_24 (AY), JellyBread_24 (AY), Kabloowy_24 (AY), KayMoney_23 (FA), Lawnathon_24 (AY), LittleRon_23 (FA), MUWow_23 (AY), Mapleville_24 (AY), NewKitty_25 (AY), Nyilah_23 (AY), Phrank15_23 (AY), Raphaella_24 (AY), Raqqa_21 (AY), RootBeer_19 (FA), Sakai_24 (AY), Satrap_24 (AY), Seahorse_25 (AY), Shukran_24 (AY), SonDevVon_23 (AY), Sporco_25 (AY), ThayneTheZag_24 (AY), Tiff81_25 (AY), Vopal_25 (AY),

Start 6:
• Found in 2 of 38 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ding_24 (AY), Henrique_23 (FA),

Start 7:
• Found in 11 of 38 (28.9%) of genes in pham
• No Manual Annotations of this start.
• Called 9.1% of time when present
• Phage (with cluster) where this start called: MurphyJoseph_24 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:
•Start number 5 was manually annotated 17 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 5 was manually annotated 3 times for cluster FA.

Gene Information:
Gene: AbbyDaisy_21 Start: 17518, Stop: 17847, Start Num: 5
Candidate Starts for AbbyDaisy_21:
(Start: 5 @17518 has 20 MA's), (7, 17542), (9, 17560), (12, 17590), (16, 17644), (17, 17704), (19, 17782),

Gene: AdaS_24 Start: 18562, Stop: 18888, Start Num: 5

Candidate Starts for AdaS_24:
(3, 18496), (Start: 5 @18562 has 20 MA's), (9, 18604), (12, 18634), (16, 18688), (19, 18826),

Gene: Anekin_23 Start: 18525, Stop: 18851, Start Num: 5
Candidate Starts for Anekin_23:
(Start: 5 @18525 has 20 MA's), (9, 18567), (12, 18597), (16, 18651), (19, 18789),

Gene: Bhageatrice_26 Start: 19849, Stop: 20175, Start Num: 5
Candidate Starts for Bhageatrice_26:
(3, 19783), (Start: 5 @19849 has 20 MA's), (7, 19873), (9, 19891), (12, 19921), (16, 19975), (18, 20080), (19, 20113),

Gene: BillyTP_24 Start: 18346, Stop: 18672, Start Num: 5
Candidate Starts for BillyTP_24:
(3, 18280), (Start: 5 @18346 has 20 MA's), (9, 18388), (12, 18418), (16, 18472), (19, 18610),

Gene: ChuckDuck_23 Start: 18463, Stop: 18789, Start Num: 5
Candidate Starts for ChuckDuck_23:
(3, 18397), (Start: 5 @18463 has 20 MA's), (12, 18535), (16, 18589), (19, 18727),

Gene: CosmicBrownie_24 Start: 18520, Stop: 18846, Start Num: 5
Candidate Starts for CosmicBrownie_24:
(3, 18454), (Start: 5 @18520 has 20 MA's), (9, 18562), (12, 18592), (13, 18607), (16, 18646), (19, 18784),

Gene: Crescenzo_24 Start: 18453, Stop: 18779, Start Num: 5
Candidate Starts for Crescenzo_24:
(Start: 5 @18453 has 20 MA's), (9, 18495), (12, 18525), (16, 18579), (19, 18717),

Gene: DarwinJr_27 Start: 19757, Stop: 20083, Start Num: 5
Candidate Starts for DarwinJr_27:
(Start: 5 @19757 has 20 MA's), (9, 19799), (12, 19829), (16, 19883), (19, 20021),

Gene: Ding_24 Start: 18627, Stop: 18920, Start Num: 6
Candidate Starts for Ding_24:
(6, 18627), (8, 18654), (9, 18666), (10, 18681), (14, 18738), (16, 18750), (19, 18888),

Gene: Gorpy_24 Start: 18571, Stop: 18897, Start Num: 5
Candidate Starts for Gorpy_24:
(3, 18505), (Start: 5 @18571 has 20 MA's), (9, 18613), (12, 18643), (16, 18697), (19, 18835),

Gene: GumGum_24 Start: 18511, Stop: 18837, Start Num: 5
Candidate Starts for GumGum_24:
(3, 18445), (Start: 5 @18511 has 20 MA's), (7, 18535), (9, 18553), (12, 18583), (13, 18598), (16, 18637), (19, 18775),

Gene: Henrique_23 Start: 18585, Stop: 18881, Start Num: 6
Candidate Starts for Henrique_23:
(3, 18519), (4, 18546), (6, 18585), (7, 18606), (8, 18612), (10, 18639), (11, 18642), (16, 18708), (19, 18846),

Gene: Hestia_24 Start: 18740, Stop: 19066, Start Num: 5
Candidate Starts for Hestia_24:

(3, 18674), (Start: 5 @18740 has 20 MA's), (7, 18764), (9, 18782), (12, 18812), (16, 18866), (19, 19004),

Gene: Isolde_24 Start: 18397, Stop: 18723, Start Num: 5
Candidate Starts for Isolde_24:
(3, 18331), (Start: 5 @18397 has 20 MA's), (9, 18439), (12, 18469), (16, 18523), (19, 18661),

Gene: JellyBread_24 Start: 18555, Stop: 18881, Start Num: 5
Candidate Starts for JellyBread_24:
(3, 18489), (Start: 5 @18555 has 20 MA's), (9, 18597), (12, 18627), (16, 18681), (19, 18819),

Gene: Kabloowy_24 Start: 18751, Stop: 19077, Start Num: 5
Candidate Starts for Kabloowy_24:
(3, 18685), (Start: 5 @18751 has 20 MA's), (7, 18775), (9, 18793), (12, 18823), (13, 18838), (16, 18877), (19, 19015),

Gene: KayMoney_23 Start: 18467, Stop: 18793, Start Num: 5
Candidate Starts for KayMoney_23:
(Start: 5 @18467 has 20 MA's), (12, 18539), (16, 18593), (19, 18731),

Gene: Lawnathon_24 Start: 18491, Stop: 18817, Start Num: 5
Candidate Starts for Lawnathon_24:
(3, 18425), (Start: 5 @18491 has 20 MA's), (9, 18533), (12, 18563), (16, 18617), (19, 18755),

Gene: LittleRon_23 Start: 18436, Stop: 18762, Start Num: 5
Candidate Starts for LittleRon_23:
(1, 18286), (Start: 5 @18436 has 20 MA's), (12, 18508), (16, 18562), (19, 18700),

Gene: MUWow_23 Start: 18655, Stop: 18981, Start Num: 5
Candidate Starts for MUWow_23:
(3, 18589), (Start: 5 @18655 has 20 MA's), (9, 18697), (12, 18727), (16, 18781), (19, 18919),

Gene: Mapleville_24 Start: 18561, Stop: 18887, Start Num: 5
Candidate Starts for Mapleville_24:
(3, 18495), (Start: 5 @18561 has 20 MA's), (9, 18603), (12, 18633), (16, 18687), (19, 18825),

Gene: MurphyJoseph_24 Start: 18670, Stop: 18972, Start Num: 7
Candidate Starts for MurphyJoseph_24:
(Start: 5 @18646 has 20 MA's), (7, 18670), (9, 18688), (12, 18718), (13, 18733), (16, 18772), (19, 18910),

Gene: NewKitty_25 Start: 18792, Stop: 19118, Start Num: 5
Candidate Starts for NewKitty_25:
(Start: 5 @18792 has 20 MA's), (9, 18834), (12, 18864), (16, 18918), (19, 19056),

Gene: Nyilah_23 Start: 18552, Stop: 18878, Start Num: 5
Candidate Starts for Nyilah_23:
(3, 18486), (Start: 5 @18552 has 20 MA's), (7, 18576), (9, 18594), (12, 18624), (13, 18639), (16, 18678), (19, 18816),

Gene: Phrank15_23 Start: 18496, Stop: 18822, Start Num: 5
Candidate Starts for Phrank15_23:
(3, 18430), (Start: 5 @18496 has 20 MA's), (9, 18538), (12, 18568), (16, 18622), (19, 18760),

Gene: Raphaella_24 Start: 18562, Stop: 18888, Start Num: 5
Candidate Starts for Raphaella_24:
(3, 18496), (Start: 5 @18562 has 20 MA's), (9, 18604), (12, 18634), (16, 18688), (19, 18826),

Gene: Raqqa_21 Start: 17814, Stop: 18140, Start Num: 5
Candidate Starts for Raqqa_21:
(Start: 5 @17814 has 20 MA's), (12, 17886), (16, 17940), (17, 18000), (19, 18078),

Gene: RootBeer_19 Start: 16171, Stop: 16497, Start Num: 5
Candidate Starts for RootBeer_19:
(2, 16087), (Start: 5 @16171 has 20 MA's), (7, 16195), (17, 16357), (19, 16435),

Gene: Sakai_24 Start: 18571, Stop: 18897, Start Num: 5
Candidate Starts for Sakai_24:
(3, 18505), (Start: 5 @18571 has 20 MA's), (9, 18613), (12, 18643), (16, 18697), (19, 18835),

Gene: Satrap_24 Start: 18483, Stop: 18809, Start Num: 5
Candidate Starts for Satrap_24:
(3, 18417), (Start: 5 @18483 has 20 MA's), (12, 18555), (15, 18606), (16, 18609), (17, 18669), (19, 18747),

Gene: Seahorse_25 Start: 18926, Stop: 19252, Start Num: 5
Candidate Starts for Seahorse_25:
(3, 18860), (Start: 5 @18926 has 20 MA's), (7, 18950), (9, 18968), (12, 18998), (16, 19052), (19, 19190),

Gene: Shukran_24 Start: 18483, Stop: 18809, Start Num: 5
Candidate Starts for Shukran_24:
(3, 18417), (Start: 5 @18483 has 20 MA's), (12, 18555), (15, 18606), (16, 18609), (17, 18669), (19, 18747),

Gene: SonDevVon_23 Start: 18564, Stop: 18890, Start Num: 5
Candidate Starts for SonDevVon_23:
(3, 18498), (Start: 5 @18564 has 20 MA's), (9, 18606), (12, 18636), (16, 18690), (19, 18828),

Gene: Sporco_25 Start: 18619, Stop: 18945, Start Num: 5
Candidate Starts for Sporco_25:
(3, 18553), (Start: 5 @18619 has 20 MA's), (9, 18661), (12, 18691), (16, 18745), (19, 18883),

Gene: ThayneTheZag_24 Start: 18734, Stop: 19060, Start Num: 5
Candidate Starts for ThayneTheZag_24:
(Start: 5 @18734 has 20 MA's), (12, 18806), (16, 18860), (17, 18920), (19, 18998),

Gene: Tiff81_25 Start: 18654, Stop: 18980, Start Num: 5
Candidate Starts for Tiff81_25:
(3, 18588), (Start: 5 @18654 has 20 MA's), (7, 18678), (9, 18696), (12, 18726), (13, 18741), (16, 18780), (19, 18918),

Gene: Vopal_25 Start: 18634, Stop: 18960, Start Num: 5
Candidate Starts for Vopal_25:
(3, 18568), (Start: 5 @18634 has 20 MA's), (9, 18676), (12, 18706), (16, 18760), (19, 18898),