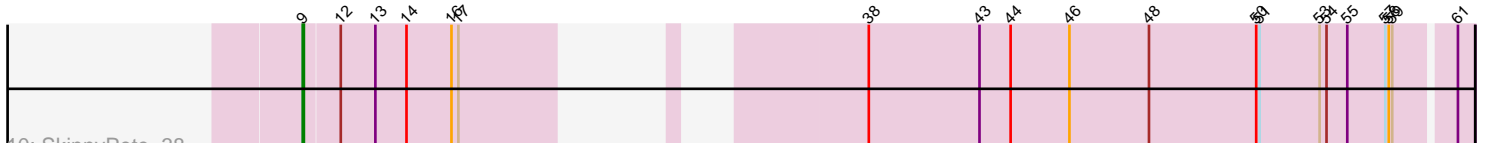
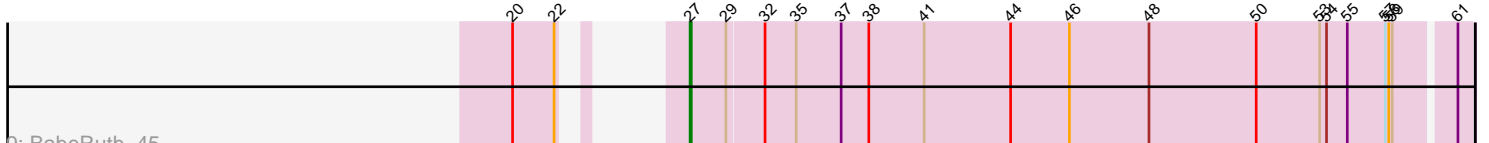
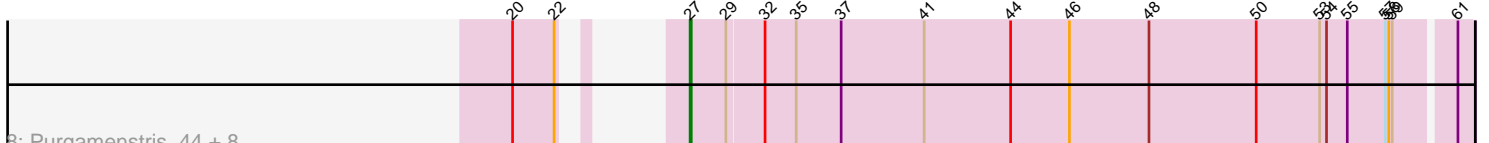
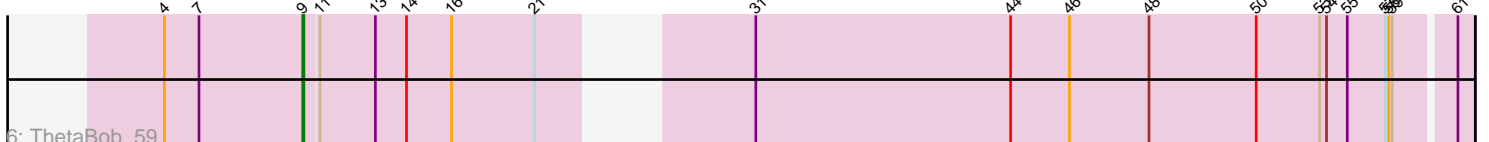
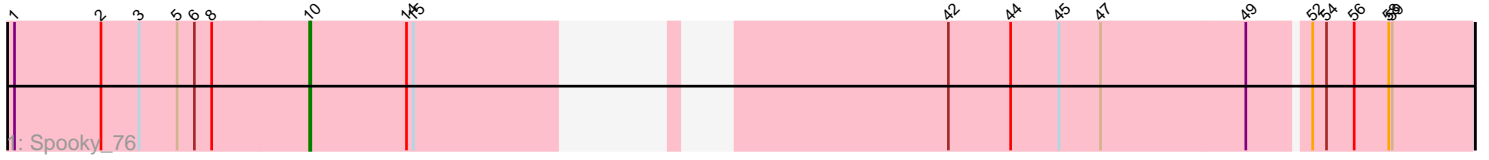


# Pham 293200



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 293200 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293200 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Spooky\_76
- Track 2 : LordVader\_50
- Track 3 : EleanorGeorge\_55
- Track 4 : Che8\_59
- Track 5 : Frankie\_59
- Track 6 : ThetaBob\_59
- Track 7 : MulchSalad\_53
- Track 8 : Purgamenstris\_44, PhancyPhin\_44, Spinach\_44, Redi\_44, ShrimpFriedEgg\_44, Hanako\_44, Rebel\_36, Raymond7\_38, Nенаe\_44
- Track 9 : BabeRuth\_45
- Track 10 : SkinnyPete\_38

### ***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 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabeRuth\_45, Hanako\_44, Nенаe\_44, PhancyPhin\_44, Purgamenstris\_44, Raymond7\_38, Rebel\_36, Redi\_44, ShrimpFriedEgg\_44, Spinach\_44,

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

- 

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

- Che8\_59, EleanorGeorge\_55, Frankie\_59, LordVader\_50, MulchSalad\_53, SkinnyPete\_38, Spooky\_76, ThetaBob\_59,

### **Summary by start number:**

Start 9:

- Found in 7 of 18 ( 38.9% ) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Che8\_59 (F1), EleanorGeorge\_55 (F1), Frankie\_59 (F1), LordVader\_50 (F), MulchSalad\_53 (F7), SkinnyPete\_38 (N), ThetaBob\_59 (F4),

Start 10:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooky\_76 (DN2),

Start 27:

- Found in 10 of 18 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabeRuth\_45 (N), Hanako\_44 (N), Nенаe\_44 (N), PhancyPhin\_44 (N), Purgamenstris\_44 (N), Raymond7\_38 (N), Rebel\_36 (N), Redi\_44 (N), ShrimpFriedEgg\_44 (N), Spinach\_44 (N),

### **Summary by clusters:**

There are 6 clusters represented in this pham: F1, F4, F, F7, N, DN2,

Info for manual annotations of cluster DN2:

- Start number 10 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 9 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster N:

- Start number 9 was manually annotated 1 time for cluster N.
- Start number 27 was manually annotated 10 times for cluster N.

### **Gene Information:**

Gene: BabeRuth\_45 Start: 31045, Stop: 31707, Start Num: 27

Candidate Starts for BabeRuth\_45:

(20, 30979), (22, 31015), (Start: 27 @31045 has 10 MA's), (29, 31075), (32, 31105), (35, 31132), (37, 31171), (38, 31195), (41, 31243), (44, 31318), (46, 31369), (48, 31438), (50, 31531), (53, 31585), (54, 31591), (55, 31609), (57, 31642), (58, 31645), (59, 31648), (61, 31696),

Gene: Che8\_59 Start: 40410, Stop: 41216, Start Num: 9

Candidate Starts for Che8\_59:

(Start: 9 @40410 has 5 MA's), (11, 40422), (13, 40470), (14, 40497), (16, 40536), (19, 40584), (21, 40608), (33, 40632), (36, 40656), (37, 40680), (38, 40704), (41, 40752), (44, 40827), (46, 40878), (48, 40947), (50, 41040), (54, 41100), (55, 41118), (57, 41151), (58, 41154), (59, 41157), (60, 41166), (61, 41205),

Gene: EleanorGeorge\_55 Start: 38731, Stop: 39228, Start Num: 9

Candidate Starts for EleanorGeorge\_55:

(4, 38611), (7, 38641), (Start: 9 @38731 has 5 MA's), (11, 38743), (14, 38818), (16, 38857), (44, 38980), (46, 39031), (48, 39100), (50, 39193),

Gene: Frankie\_59 Start: 39568, Stop: 40473, Start Num: 9

Candidate Starts for Frankie\_59:

(Start: 9 @39568 has 5 MA's), (12, 39598), (13, 39628), (14, 39655), (16, 39694), (18, 39718), (21, 39766), (34, 39892), (36, 39910), (38, 39958), (39, 39964), (40, 39982), (43, 40054), (44, 40081), (46, 40132), (48, 40201), (50, 40294), (51, 40297), (53, 40348), (54, 40354), (55, 40372), (57, 40405), (58, 40408), (59, 40411), (61, 40459),

Gene: Hanako\_44 Start: 31044, Stop: 31706, Start Num: 27

Candidate Starts for Hanako\_44:

(20, 30978), (22, 31014), (Start: 27 @31044 has 10 MA's), (29, 31074), (32, 31104), (35, 31131), (37, 31170), (41, 31242), (44, 31317), (46, 31368), (48, 31437), (50, 31530), (53, 31584), (54, 31590), (55, 31608), (57, 31641), (58, 31644), (59, 31647), (61, 31695),

Gene: LordVader\_50 Start: 32833, Stop: 33831, Start Num: 9

Candidate Starts for LordVader\_50:

(Start: 9 @32833 has 5 MA's), (12, 32863), (13, 32893), (14, 32920), (18, 32983), (19, 33007), (21, 33031), (23, 33055), (24, 33079), (25, 33103), (26, 33151), (30, 33199), (31, 33223), (38, 33319), (41, 33367), (44, 33442), (46, 33493), (48, 33562), (50, 33655), (53, 33709), (54, 33715), (55, 33733), (58, 33769), (59, 33772), (61, 33820),

Gene: MulchSalad\_53 Start: 35537, Stop: 36442, Start Num: 9

Candidate Starts for MulchSalad\_53:

(Start: 9 @35537 has 5 MA's), (12, 35567), (13, 35597), (14, 35624), (16, 35663), (21, 35735), (26, 35759), (28, 35783), (30, 35807), (31, 35831), (33, 35855), (36, 35879), (43, 36023), (44, 36050), (46, 36101), (48, 36170), (50, 36263), (51, 36266), (53, 36317), (54, 36323), (55, 36341), (57, 36374), (58, 36377), (59, 36380), (61, 36428),

Gene: Nenae\_44 Start: 31047, Stop: 31709, Start Num: 27

Candidate Starts for Nenae\_44:

(20, 30981), (22, 31017), (Start: 27 @31047 has 10 MA's), (29, 31077), (32, 31107), (35, 31134), (37, 31173), (41, 31245), (44, 31320), (46, 31371), (48, 31440), (50, 31533), (53, 31587), (54, 31593), (55, 31611), (57, 31644), (58, 31647), (59, 31650), (61, 31698),

Gene: PhancyPhin\_44 Start: 31041, Stop: 31703, Start Num: 27

Candidate Starts for PhancyPhin\_44:

(20, 30975), (22, 31011), (Start: 27 @31041 has 10 MA's), (29, 31071), (32, 31101), (35, 31128), (37, 31167), (41, 31239), (44, 31314), (46, 31365), (48, 31434), (50, 31527), (53, 31581), (54, 31587), (55, 31605), (57, 31638), (58, 31641), (59, 31644), (61, 31692),

Gene: Purgamenstris\_44 Start: 31045, Stop: 31707, Start Num: 27

Candidate Starts for Purgamenstris\_44:

(20, 30979), (22, 31015), (Start: 27 @31045 has 10 MA's), (29, 31075), (32, 31105), (35, 31132), (37, 31171), (41, 31243), (44, 31318), (46, 31369), (48, 31438), (50, 31531), (53, 31585), (54, 31591), (55, 31609), (57, 31642), (58, 31645), (59, 31648), (61, 31696),

Gene: Raymond7\_38 Start: 30857, Stop: 31495, Start Num: 27

Candidate Starts for Raymond7\_38:

(20, 30791), (22, 30827), (Start: 27 @30857 has 10 MA's), (29, 30887), (32, 30917), (35, 30944), (37, 30983), (41, 31031), (44, 31106), (46, 31157), (48, 31226), (50, 31319), (53, 31373), (54, 31379), (55, 31397), (57, 31430), (58, 31433), (59, 31436), (61, 31484),

Gene: Rebel\_36 Start: 27175, Stop: 27837, Start Num: 27

Candidate Starts for Rebel\_36:

(20, 27109), (22, 27145), (Start: 27 @27175 has 10 MA's), (29, 27205), (32, 27235), (35, 27262), (37, 27301), (41, 27373), (44, 27448), (46, 27499), (48, 27568), (50, 27661), (53, 27715), (54, 27721), (55, 27739), (57, 27772), (58, 27775), (59, 27778), (61, 27826),

Gene: Redi\_44 Start: 31044, Stop: 31706, Start Num: 27

Candidate Starts for Redi\_44:

(20, 30978), (22, 31014), (Start: 27 @31044 has 10 MA's), (29, 31074), (32, 31104), (35, 31131), (37, 31170), (41, 31242), (44, 31317), (46, 31368), (48, 31437), (50, 31530), (53, 31584), (54, 31590), (55, 31608), (57, 31641), (58, 31644), (59, 31647), (61, 31695),

Gene: ShrimpFriedEgg\_44 Start: 31044, Stop: 31706, Start Num: 27

Candidate Starts for ShrimpFriedEgg\_44:

(20, 30978), (22, 31014), (Start: 27 @31044 has 10 MA's), (29, 31074), (32, 31104), (35, 31131), (37, 31170), (41, 31242), (44, 31317), (46, 31368), (48, 31437), (50, 31530), (53, 31584), (54, 31590), (55, 31608), (57, 31641), (58, 31644), (59, 31647), (61, 31695),

Gene: SkinnyPete\_38 Start: 28311, Stop: 29168, Start Num: 9

Candidate Starts for SkinnyPete\_38:

(Start: 9 @28311 has 5 MA's), (12, 28341), (13, 28371), (14, 28398), (16, 28437), (17, 28443), (38, 28653), (43, 28749), (44, 28776), (46, 28827), (48, 28896), (50, 28989), (51, 28992), (53, 29043), (54, 29049), (55, 29067), (57, 29100), (58, 29103), (59, 29106), (61, 29154),

Gene: Spinach\_44 Start: 31044, Stop: 31706, Start Num: 27

Candidate Starts for Spinach\_44:

(20, 30978), (22, 31014), (Start: 27 @31044 has 10 MA's), (29, 31074), (32, 31104), (35, 31131), (37, 31170), (41, 31242), (44, 31317), (46, 31368), (48, 31437), (50, 31530), (53, 31584), (54, 31590), (55, 31608), (57, 31641), (58, 31644), (59, 31647), (61, 31695),

Gene: Spooky\_76 Start: 44554, Stop: 45402, Start Num: 10

Candidate Starts for Spooky\_76:

(1, 44299), (2, 44374), (3, 44407), (5, 44440), (6, 44455), (8, 44470), (Start: 10 @44554 has 1 MA's), (14, 44638), (15, 44644), (42, 44962), (44, 45016), (45, 45058), (47, 45094), (49, 45217), (52, 45265), (54, 45277), (56, 45301), (58, 45331), (59, 45334),

Gene: ThetaBob\_59 Start: 38970, Stop: 39896, Start Num: 9

Candidate Starts for ThetaBob\_59:

(4, 38850), (7, 38880), (Start: 9 @38970 has 5 MA's), (11, 38982), (13, 39030), (14, 39057), (16, 39096), (21, 39168), (31, 39288), (44, 39507), (46, 39558), (48, 39627), (50, 39720), (53, 39774), (54, 39780), (55, 39798), (57, 39831), (58, 39834), (59, 39837), (61, 39885),