



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 196959 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196959 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Beted\_29, Lenoshki\_29
- Track 2 : Alok\_28, Chidiebere\_29, Pakusa\_28, MintFritos\_28, Gray\_29, Kabocha\_30, Twin\_28, Schomber\_28
- Track 3 : UBSmoodge\_30
- Track 4 : ChisanaKitsune\_25
- Track 5 : Oogie\_29
- Track 6 : Hanem\_29

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

The start number called the most often in the published annotations is 7, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_28, Chidiebere\_29, ChisanaKitsune\_25, Gray\_29, Hanem\_29, Kabocha\_30, MintFritos\_28, Pakusa\_28, Schomber\_28, Twin\_28,

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

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

- Beted\_29, Lenoshki\_29, Oogie\_29, UBSmoodge\_30,

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

Start 1:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beted\_29 (DQ), Lenoshki\_29 (DQ), Oogie\_29 (DQ),

Start 5:

- Found in 1 of 14 ( 7.1% ) of genes in pham

- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UBSmoodge\_30 (DQ),

Start 7:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki\_28 (DQ), Chidiebere\_29 (DQ), ChisanaKitsune\_25 (DQ), Gray\_29 (DQ), Hanem\_29 (DQ), Kabocha\_30 (DQ), MintFritos\_28 (DQ), Pakusa\_28 (DQ), Schomber\_28 (DQ), Twin\_28 (DQ),

### Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 5 was manually annotated 1 time for cluster DQ.
- Start number 7 was manually annotated 6 times for cluster DQ.

### Gene Information:

Gene: Aloki\_28 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for Aloki\_28:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: Beted\_29 Start: 18993, Stop: 21029, Start Num: 1

Candidate Starts for Beted\_29:

(1, 18993), (3, 19053), (6, 19389), (9, 19521), (10, 19539), (11, 19545), (13, 19566), (14, 19602), (16, 19629), (17, 19632), (18, 19656), (19, 19686), (20, 19698), (21, 19719), (22, 19752), (27, 19851), (29, 19905), (32, 19938), (33, 19950), (37, 20031), (40, 20073), (42, 20100), (45, 20127), (47, 20136), (48, 20154), (49, 20157), (52, 20283), (53, 20292), (54, 20319), (55, 20343), (57, 20430), (59, 20565), (66, 20670), (68, 20796), (69, 20817), (70, 20832), (71, 20850), (72, 20859), (73, 20952),

Gene: Chidiebere\_29 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for Chidiebere\_29:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: ChisanaKitsune\_25 Start: 16362, Stop: 17915, Start Num: 7

Candidate Starts for ChisanaKitsune\_25:

(Start: 7 @16362 has 6 MA's), (8, 16440), (9, 16452), (15, 16533), (34, 16869), (37, 16917), (39, 16938), (40, 16959), (43, 16995), (45, 17013), (47, 17022), (48, 17040), (52, 17169), (53, 17178), (57, 17316), (59, 17451), (66, 17556), (68, 17682), (69, 17703), (70, 17718), (72, 17745), (73, 17838),

Gene: Gray\_29 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for Gray\_29:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: Hanem\_29 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for Hanem\_29:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (60, 18789), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: Kabocha\_30 Start: 18510, Stop: 20165, Start Num: 7

Candidate Starts for Kabocha\_30:

(Start: 7 @18510 has 6 MA's), (8, 18588), (9, 18600), (15, 18681), (34, 19017), (37, 19065), (39, 19086), (40, 19107), (43, 19143), (45, 19161), (47, 19170), (48, 19188), (52, 19317), (53, 19326), (57, 19464), (61, 19647), (62, 19656), (68, 19932), (69, 19953), (70, 19968), (71, 19986), (72, 19995), (73, 20088),

Gene: Lenoshki\_29 Start: 18993, Stop: 21029, Start Num: 1

Candidate Starts for Lenoshki\_29:

(1, 18993), (3, 19053), (6, 19389), (9, 19521), (10, 19539), (11, 19545), (13, 19566), (14, 19602), (16, 19629), (17, 19632), (18, 19656), (19, 19686), (20, 19698), (21, 19719), (22, 19752), (27, 19851), (29, 19905), (32, 19938), (33, 19950), (37, 20031), (40, 20073), (42, 20100), (45, 20127), (47, 20136), (48, 20154), (49, 20157), (52, 20283), (53, 20292), (54, 20319), (55, 20343), (57, 20430), (59, 20565), (66, 20670), (68, 20796), (69, 20817), (70, 20832), (71, 20850), (72, 20859), (73, 20952),

Gene: MintFritos\_28 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for MintFritos\_28:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: Oogie\_29 Start: 19019, Stop: 21055, Start Num: 1

Candidate Starts for Oogie\_29:

(1, 19019), (2, 19052), (3, 19079), (9, 19547), (10, 19565), (11, 19571), (13, 19592), (14, 19628), (16, 19655), (17, 19658), (18, 19682), (19, 19712), (20, 19724), (21, 19745), (22, 19778), (27, 19877), (29, 19931), (32, 19964), (33, 19976), (37, 20057), (40, 20099), (42, 20126), (45, 20153), (47, 20162), (48, 20180), (49, 20183), (50, 20186), (52, 20309), (53, 20318), (54, 20345), (55, 20369), (57, 20456), (59, 20591), (66, 20696), (68, 20822), (69, 20843), (72, 20885), (73, 20978),

Gene: Pakusa\_28 Start: 17439, Stop: 19094, Start Num: 7

Candidate Starts for Pakusa\_28:

(Start: 7 @17439 has 6 MA's), (8, 17517), (9, 17529), (15, 17610), (34, 17946), (37, 17994), (39, 18015), (40, 18036), (43, 18072), (45, 18090), (47, 18099), (48, 18117), (52, 18246), (53, 18255), (57, 18393), (61, 18576), (62, 18585), (68, 18861), (69, 18882), (70, 18897), (71, 18915), (72, 18924), (73, 19017),

Gene: Schomber\_28 Start: 17447, Stop: 19102, Start Num: 7

Candidate Starts for Schomber\_28:

(Start: 7 @17447 has 6 MA's), (8, 17525), (9, 17537), (15, 17618), (34, 17954), (37, 18002), (39, 18023), (40, 18044), (43, 18080), (45, 18098), (47, 18107), (48, 18125), (52, 18254), (53, 18263), (57, 18401), (61, 18584), (62, 18593), (68, 18869), (69, 18890), (70, 18905), (71, 18923), (72, 18932), (73, 19025),

Gene: Twin\_28 Start: 17697, Stop: 19352, Start Num: 7

Candidate Starts for Twin\_28:

(Start: 7 @17697 has 6 MA's), (8, 17775), (9, 17787), (15, 17868), (34, 18204), (37, 18252), (39, 18273), (40, 18294), (43, 18330), (45, 18348), (47, 18357), (48, 18375), (52, 18504), (53, 18513), (57, 18651), (61, 18834), (62, 18843), (68, 19119), (69, 19140), (70, 19155), (71, 19173), (72, 19182), (73, 19275),

Gene: UBSmoodge\_30 Start: 19255, Stop: 21171, Start Num: 5

Candidate Starts for UBSmoodge\_30:

(4, 19210), (Start: 5 @19255 has 1 MA's), (12, 19525), (23, 19771), (24, 19774), (25, 19792), (26, 19798), (28, 19855), (30, 19882), (31, 19885), (34, 19951), (35, 19954), (36, 19996), (38, 20005), (41, 20068), (44, 20086), (46, 20104), (51, 20176), (52, 20266), (56, 20377), (58, 20422), (63, 20614), (64, 20632), (65, 20755), (67, 20869), (71, 20992), (72, 21001),