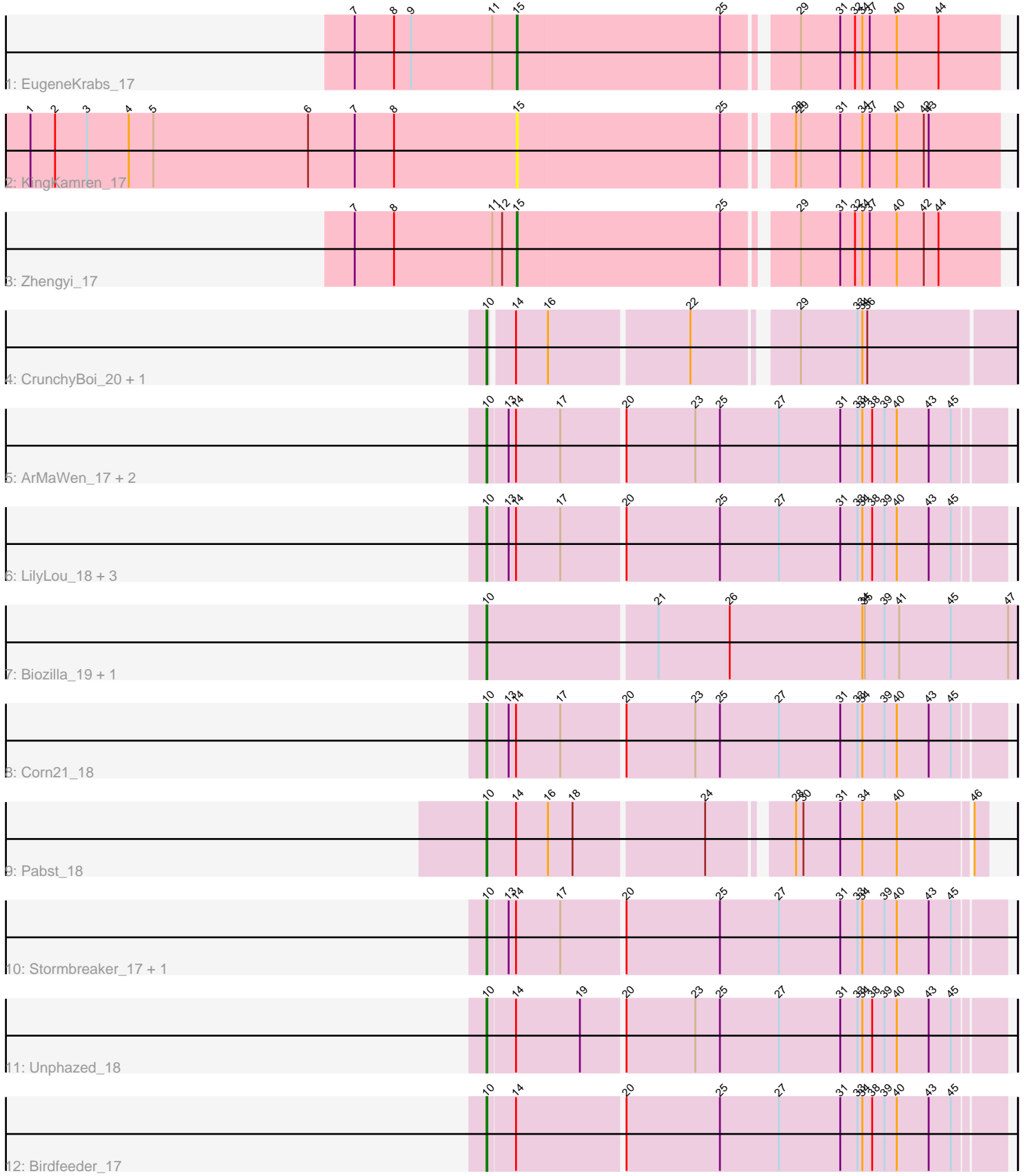


# Pham 160761



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 160761 Report

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

Pham number 160761 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : EugeneKrabs\_17
- Track 2 : KingKamren\_17
- Track 3 : Zhengyi\_17
- Track 4 : CrunchyBoi\_20, PineapplePluto\_20
- Track 5 : ArMaWen\_17, BlueRugrat\_17, LesNorah\_17
- Track 6 : LilyLou\_18, Phogo\_18, DumpQuist\_17, Dashyla\_18
- Track 7 : Biozilla\_19, HitchHiker\_20
- Track 8 : Corn21\_18
- Track 9 : Pabst\_18
- Track 10 : Stormbreaker\_17, Alex44\_18
- Track 11 : Unphazed\_18
- Track 12 : Birdfeeder\_17

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alex44\_18, ArMaWen\_17, Biozilla\_19, Birdfeeder\_17, BlueRugrat\_17, Corn21\_18, CrunchyBoi\_20, Dashyla\_18, DumpQuist\_17, HitchHiker\_20, LesNorah\_17, LilyLou\_18, Pabst\_18, Phogo\_18, PineapplePluto\_20, Stormbreaker\_17, Unphazed\_18,

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

- 

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

- EugeneKrabs\_17, KingKamren\_17, Zhengyi\_17,

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

Start 10:

- Found in 17 of 20 ( 85.0% ) of genes in pham

- Manual Annotations of this start: 15 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alex44\_18 (EK1), ArMaWen\_17 (EK1), Biozilla\_19 (EK1), Birdfeeder\_17 (EK1), BlueRugrat\_17 (EK1), Corn21\_18 (EK1), CrunchyBoi\_20 (EK1), Dashyla\_18 (EK1), DumpQuist\_17 (EK1), HitchHiker\_20 (EK1), LesNorah\_17 (EK1), LilyLou\_18 (EK1), Pabst\_18 (EK1), Phogo\_18 (EK1), PineapplePluto\_20 (EK1), Stormbreaker\_17 (EK1), Unphazed\_18 (EK1),

Start 15:

- Found in 3 of 20 ( 15.0% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EugeneKrabs\_17 (EK), KingKamren\_17 (EK), Zhengyi\_17 (EK),

### Summary by clusters:

There are 2 clusters represented in this pham: EK, EK1,

Info for manual annotations of cluster EK:

- Start number 15 was manually annotated 2 times for cluster EK.

Info for manual annotations of cluster EK1:

- Start number 10 was manually annotated 15 times for cluster EK1.

### Gene Information:

Gene: Alex44\_18 Start: 12293, Stop: 11682, Start Num: 10

Candidate Starts for Alex44\_18:

(Start: 10 @12293 has 15 MA's), (13, 12269), (14, 12260), (17, 12209), (20, 12137), (25, 12023), (27, 11951), (31, 11876), (33, 11855), (34, 11849), (39, 11822), (40, 11807), (43, 11768), (45, 11741),

Gene: ArMaWen\_17 Start: 11877, Stop: 11266, Start Num: 10

Candidate Starts for ArMaWen\_17:

(Start: 10 @11877 has 15 MA's), (13, 11853), (14, 11844), (17, 11793), (20, 11721), (23, 11637), (25, 11607), (27, 11535), (31, 11460), (33, 11439), (34, 11433), (38, 11421), (39, 11406), (40, 11391), (43, 11352), (45, 11325),

Gene: Biozilla\_19 Start: 12718, Stop: 12086, Start Num: 10

Candidate Starts for Biozilla\_19:

(Start: 10 @12718 has 15 MA's), (21, 12520), (26, 12433), (34, 12274), (35, 12271), (39, 12247), (41, 12229), (45, 12166), (47, 12097),

Gene: Birdfeeder\_17 Start: 12240, Stop: 11626, Start Num: 10

Candidate Starts for Birdfeeder\_17:

(Start: 10 @12240 has 15 MA's), (14, 12207), (20, 12081), (25, 11967), (27, 11895), (31, 11820), (33, 11799), (34, 11793), (38, 11781), (39, 11766), (40, 11751), (43, 11712), (45, 11685),

Gene: BlueRugrat\_17 Start: 12311, Stop: 11700, Start Num: 10

Candidate Starts for BlueRugrat\_17:

(Start: 10 @12311 has 15 MA's), (13, 12287), (14, 12278), (17, 12227), (20, 12155), (23, 12071), (25, 12041), (27, 11969), (31, 11894), (33, 11873), (34, 11867), (38, 11855), (39, 11840), (40, 11825), (43, 11786), (45, 11759),

Gene: Corn21\_18 Start: 12616, Stop: 12005, Start Num: 10

Candidate Starts for Corn21\_18:

(Start: 10 @12616 has 15 MA's), (13, 12592), (14, 12583), (17, 12532), (20, 12460), (23, 12376), (25, 12346), (27, 12274), (31, 12199), (33, 12178), (34, 12172), (39, 12145), (40, 12130), (43, 12091), (45, 12064),

Gene: CrunchyBoi\_20 Start: 12670, Stop: 12077, Start Num: 10

Candidate Starts for CrunchyBoi\_20:

(Start: 10 @12670 has 15 MA's), (14, 12643), (16, 12604), (22, 12439), (29, 12331), (33, 12262), (34, 12256), (36, 12250),

Gene: Dashyla\_18 Start: 11890, Stop: 11279, Start Num: 10

Candidate Starts for Dashyla\_18:

(Start: 10 @11890 has 15 MA's), (13, 11866), (14, 11857), (17, 11806), (20, 11734), (25, 11620), (27, 11548), (31, 11473), (33, 11452), (34, 11446), (38, 11434), (39, 11419), (40, 11404), (43, 11365), (45, 11338),

Gene: DumpQuist\_17 Start: 11880, Stop: 11269, Start Num: 10

Candidate Starts for DumpQuist\_17:

(Start: 10 @11880 has 15 MA's), (13, 11856), (14, 11847), (17, 11796), (20, 11724), (25, 11610), (27, 11538), (31, 11463), (33, 11442), (34, 11436), (38, 11424), (39, 11409), (40, 11394), (43, 11355), (45, 11328),

Gene: EugeneKrabs\_17 Start: 12140, Stop: 11580, Start Num: 15

Candidate Starts for EugeneKrabs\_17:

(7, 12338), (8, 12290), (9, 12269), (11, 12170), (Start: 15 @12140 has 2 MA's), (25, 11894), (29, 11822), (31, 11774), (32, 11756), (34, 11747), (37, 11738), (40, 11705), (44, 11654),

Gene: HitchHiker\_20 Start: 12718, Stop: 12086, Start Num: 10

Candidate Starts for HitchHiker\_20:

(Start: 10 @12718 has 15 MA's), (21, 12520), (26, 12433), (34, 12274), (35, 12271), (39, 12247), (41, 12229), (45, 12166), (47, 12097),

Gene: KingKamren\_17 Start: 12045, Stop: 11485, Start Num: 15

Candidate Starts for KingKamren\_17:

(1, 12639), (2, 12609), (3, 12570), (4, 12519), (5, 12489), (6, 12300), (7, 12243), (8, 12195), (Start: 15 @12045 has 2 MA's), (25, 11799), (28, 11733), (29, 11727), (31, 11679), (34, 11652), (37, 11643), (40, 11610), (42, 11577), (43, 11571),

Gene: LesNorah\_17 Start: 12404, Stop: 11793, Start Num: 10

Candidate Starts for LesNorah\_17:

(Start: 10 @12404 has 15 MA's), (13, 12380), (14, 12371), (17, 12320), (20, 12248), (23, 12164), (25, 12134), (27, 12062), (31, 11987), (33, 11966), (34, 11960), (38, 11948), (39, 11933), (40, 11918), (43, 11879), (45, 11852),

Gene: LilyLou\_18 Start: 12254, Stop: 11643, Start Num: 10

Candidate Starts for LilyLou\_18:

(Start: 10 @12254 has 15 MA's), (13, 12230), (14, 12221), (17, 12170), (20, 12098), (25, 11984), (27, 11912), (31, 11837), (33, 11816), (34, 11810), (38, 11798), (39, 11783), (40, 11768), (43, 11729), (45,

11702),

Gene: Pabst\_18 Start: 12378, Stop: 11812, Start Num: 10

Candidate Starts for Pabst\_18:

(Start: 10 @12378 has 15 MA's), (14, 12342), (16, 12303), (18, 12273), (24, 12120), (28, 12033), (30, 12024), (31, 11979), (34, 11952), (40, 11910), (46, 11826),

Gene: Phogo\_18 Start: 12086, Stop: 11475, Start Num: 10

Candidate Starts for Phogo\_18:

(Start: 10 @12086 has 15 MA's), (13, 12062), (14, 12053), (17, 12002), (20, 11930), (25, 11816), (27, 11744), (31, 11669), (33, 11648), (34, 11642), (38, 11630), (39, 11615), (40, 11600), (43, 11561), (45, 11534),

Gene: PineapplePluto\_20 Start: 12679, Stop: 12086, Start Num: 10

Candidate Starts for PineapplePluto\_20:

(Start: 10 @12679 has 15 MA's), (14, 12652), (16, 12613), (22, 12448), (29, 12340), (33, 12271), (34, 12265), (36, 12259),

Gene: Stormbreaker\_17 Start: 12216, Stop: 11605, Start Num: 10

Candidate Starts for Stormbreaker\_17:

(Start: 10 @12216 has 15 MA's), (13, 12192), (14, 12183), (17, 12132), (20, 12060), (25, 11946), (27, 11874), (31, 11799), (33, 11778), (34, 11772), (39, 11745), (40, 11730), (43, 11691), (45, 11664),

Gene: Unphazed\_18 Start: 12116, Stop: 11502, Start Num: 10

Candidate Starts for Unphazed\_18:

(Start: 10 @12116 has 15 MA's), (14, 12083), (19, 12005), (20, 11957), (23, 11873), (25, 11843), (27, 11771), (31, 11696), (33, 11675), (34, 11669), (38, 11657), (39, 11642), (40, 11627), (43, 11588), (45, 11561),

Gene: Zhengyi\_17 Start: 12159, Stop: 11599, Start Num: 15

Candidate Starts for Zhengyi\_17:

(7, 12357), (8, 12309), (11, 12189), (12, 12177), (Start: 15 @12159 has 2 MA's), (25, 11913), (29, 11841), (31, 11793), (32, 11775), (34, 11766), (37, 11757), (40, 11724), (42, 11691), (44, 11673),