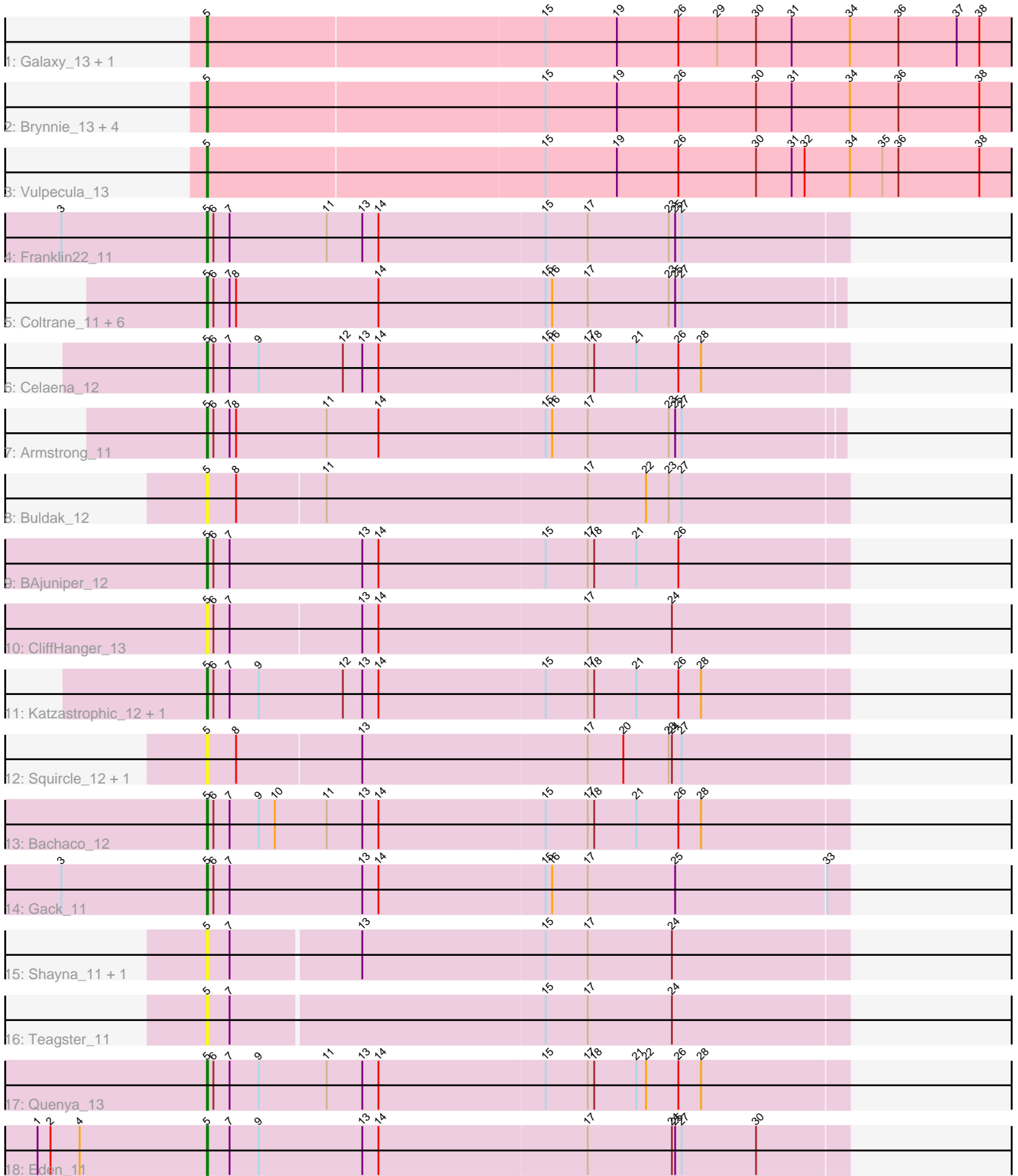


Pham 196707



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 196707 Report

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

Pham number 196707 has 32 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Galaxy_13, Abidatro_13
- Track 2 : Brynnie_13, Basilisk_13, Ruchi_13, Jamun_13, Chickaboom_12
- Track 3 : Vulpecula_13
- Track 4 : Franklin22_11
- Track 5 : Coltrane_11, Brahms_11, Vitas_11, Clayda5_11, Bernstein_11, Rollins_11, Skylord_11
- Track 6 : Celaena_12
- Track 7 : Armstrong_11
- Track 8 : Buldak_12
- Track 9 : BAjuniper_12
- Track 10 : CliffHanger_13
- Track 11 : Katzastrophic_12, FlameThrower_12
- Track 12 : Squiracle_12, Olliecat_12
- Track 13 : Bachaco_12
- Track 14 : Gack_11
- Track 15 : Shayna_11, SunnyD_11
- Track 16 : Teagster_11
- Track 17 : Quenya_13
- Track 18 : Eden_11

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 25 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_13, Armstrong_11, BAjuniper_12, Bachaco_12, Basilisk_13, Bernstein_11, Brahms_11, Brynnie_13, Buldak_12, Celaena_12, Chickaboom_12, Clayda5_11, CliffHanger_13, Coltrane_11, Eden_11, FlameThrower_12, Franklin22_11, Gack_11, Galaxy_13, Jamun_13, Katzastrophic_12, Olliecat_12, Quenya_13, Rollins_11, Ruchi_13, Shayna_11, Skylord_11, Squiracle_12, SunnyD_11, Teagster_11, Vitas_11, Vulpecula_13,

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

-

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

-

Summary by start number:

Start 5:

- Found in 32 of 32 (100.0%) of genes in pham
- Manual Annotations of this start: 25 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_13 (AS1), Armstrong_11 (EB), BAjuniper_12 (EB), Bachaco_12 (EB), Basilisk_13 (AS1), Bernstein_11 (EB), Brahms_11 (EB), Brynnie_13 (AS1), Buldak_12 (EB), Celaena_12 (EB), Chickaboom_12 (AS1), Clayda5_11 (EB), CliffHanger_13 (EB), Coltrane_11 (EB), Eden_11 (EB), FlameThrower_12 (EB), Franklin22_11 (EB), Gack_11 (EB), Galaxy_13 (AS1), Jamun_13 (AS1), Katzastrophic_12 (EB), Olliecat_12 (EB), Quenya_13 (EB), Rollins_11 (EB), Ruchi_13 (AS1), Shayna_11 (EB), Skylord_11 (EB), Squircle_12 (EB), SunnyD_11 (EB), Teagster_11 (EB), Vitas_11 (EB), Vulpecula_13 (AS1),

Summary by clusters:

There are 2 clusters represented in this pham: AS1, EB,

Info for manual annotations of cluster AS1:

- Start number 5 was manually annotated 8 times for cluster AS1.

Info for manual annotations of cluster EB:

- Start number 5 was manually annotated 17 times for cluster EB.

Gene Information:

Gene: Abidatro_13 Start: 8801, Stop: 9631, Start Num: 5

Candidate Starts for Abidatro_13:

(Start: 5 @8801 has 25 MA's), (15, 9110), (19, 9176), (26, 9233), (29, 9269), (30, 9305), (31, 9338), (34, 9392), (36, 9437), (37, 9491), (38, 9512),

Gene: Armstrong_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Armstrong_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (11, 8207), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: BAjuniper_12 Start: 8258, Stop: 8848, Start Num: 5

Candidate Starts for BAjuniper_12:

(Start: 5 @8258 has 25 MA's), (6, 8264), (7, 8279), (13, 8402), (14, 8417), (15, 8570), (17, 8609), (18, 8615), (21, 8654), (26, 8693),

Gene: Bachaco_12 Start: 8464, Stop: 9054, Start Num: 5

Candidate Starts for Bachaco_12:

(Start: 5 @8464 has 25 MA's), (6, 8470), (7, 8485), (9, 8512), (10, 8527), (11, 8575), (13, 8608), (14, 8623), (15, 8776), (17, 8815), (18, 8821), (21, 8860), (26, 8899), (28, 8920),

Gene: Basilisk_13 Start: 9125, Stop: 9955, Start Num: 5

Candidate Starts for Basilisk_13:

(Start: 5 @9125 has 25 MA's), (15, 9434), (19, 9500), (26, 9557), (30, 9629), (31, 9662), (34, 9716), (36, 9761), (38, 9836),

Gene: Bernstein_11 Start: 8156, Stop: 8740, Start Num: 5

Candidate Starts for Bernstein_11:

(Start: 5 @8156 has 25 MA's), (6, 8162), (7, 8177), (8, 8183), (14, 8315), (15, 8468), (16, 8474), (17, 8507), (23, 8582), (25, 8588), (27, 8594),

Gene: Brahms_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Brahms_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: Brynnie_13 Start: 8937, Stop: 9767, Start Num: 5

Candidate Starts for Brynnie_13:

(Start: 5 @8937 has 25 MA's), (15, 9246), (19, 9312), (26, 9369), (30, 9441), (31, 9474), (34, 9528), (36, 9573), (38, 9648),

Gene: Buldak_12 Start: 8598, Stop: 9185, Start Num: 5

Candidate Starts for Buldak_12:

(Start: 5 @8598 has 25 MA's), (8, 8625), (11, 8706), (17, 8946), (22, 9000), (23, 9021), (27, 9033),

Gene: Celaena_12 Start: 8400, Stop: 8990, Start Num: 5

Candidate Starts for Celaena_12:

(Start: 5 @8400 has 25 MA's), (6, 8406), (7, 8421), (9, 8448), (12, 8526), (13, 8544), (14, 8559), (15, 8712), (16, 8718), (17, 8751), (18, 8757), (21, 8796), (26, 8835), (28, 8856),

Gene: Chickaboom_12 Start: 8482, Stop: 9312, Start Num: 5

Candidate Starts for Chickaboom_12:

(Start: 5 @8482 has 25 MA's), (15, 8791), (19, 8857), (26, 8914), (30, 8986), (31, 9019), (34, 9073), (36, 9118), (38, 9193),

Gene: Clayda5_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Clayda5_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: CliffHanger_13 Start: 8293, Stop: 8880, Start Num: 5

Candidate Starts for CliffHanger_13:

(Start: 5 @8293 has 25 MA's), (6, 8299), (7, 8314), (13, 8434), (14, 8449), (17, 8641), (24, 8719),

Gene: Coltrane_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Coltrane_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: Eden_11 Start: 8192, Stop: 8782, Start Num: 5

Candidate Starts for Eden_11:

(1, 8039), (2, 8051), (4, 8078), (Start: 5 @8192 has 25 MA's), (7, 8213), (9, 8240), (13, 8336), (14, 8351), (17, 8543), (24, 8621), (25, 8624), (27, 8630), (30, 8699),

Gene: FlameThrower_12 Start: 8288, Stop: 8878, Start Num: 5

Candidate Starts for FlameThrower_12:

(Start: 5 @8288 has 25 MA's), (6, 8294), (7, 8309), (9, 8336), (12, 8414), (13, 8432), (14, 8447), (15, 8600), (17, 8639), (18, 8645), (21, 8684), (26, 8723), (28, 8744),

Gene: Franklin22_11 Start: 8165, Stop: 8755, Start Num: 5

Candidate Starts for Franklin22_11:

(3, 8033), (Start: 5 @8165 has 25 MA's), (6, 8171), (7, 8186), (11, 8276), (13, 8309), (14, 8324), (15, 8477), (17, 8516), (23, 8591), (25, 8597), (27, 8603),

Gene: Gack_11 Start: 8231, Stop: 8821, Start Num: 5

Candidate Starts for Gack_11:

(3, 8099), (Start: 5 @8231 has 25 MA's), (6, 8237), (7, 8252), (13, 8375), (14, 8390), (15, 8543), (16, 8549), (17, 8582), (25, 8663), (33, 8801),

Gene: Galaxy_13 Start: 8808, Stop: 9638, Start Num: 5

Candidate Starts for Galaxy_13:

(Start: 5 @8808 has 25 MA's), (15, 9117), (19, 9183), (26, 9240), (29, 9276), (30, 9312), (31, 9345), (34, 9399), (36, 9444), (37, 9498), (38, 9519),

Gene: Jamun_13 Start: 9149, Stop: 9979, Start Num: 5

Candidate Starts for Jamun_13:

(Start: 5 @9149 has 25 MA's), (15, 9458), (19, 9524), (26, 9581), (30, 9653), (31, 9686), (34, 9740), (36, 9785), (38, 9860),

Gene: Katzastrophic_12 Start: 8463, Stop: 9053, Start Num: 5

Candidate Starts for Katzastrophic_12:

(Start: 5 @8463 has 25 MA's), (6, 8469), (7, 8484), (9, 8511), (12, 8589), (13, 8607), (14, 8622), (15, 8775), (17, 8814), (18, 8820), (21, 8859), (26, 8898), (28, 8919),

Gene: Olliecat_12 Start: 8550, Stop: 9137, Start Num: 5

Candidate Starts for Olliecat_12:

(Start: 5 @8550 has 25 MA's), (8, 8577), (13, 8691), (17, 8898), (20, 8931), (23, 8973), (24, 8976), (27, 8985),

Gene: Quenya_13 Start: 8462, Stop: 9052, Start Num: 5

Candidate Starts for Quenya_13:

(Start: 5 @8462 has 25 MA's), (6, 8468), (7, 8483), (9, 8510), (11, 8573), (13, 8606), (14, 8621), (15, 8774), (17, 8813), (18, 8819), (21, 8858), (22, 8867), (26, 8897), (28, 8918),

Gene: Rollins_11 Start: 8156, Stop: 8740, Start Num: 5

Candidate Starts for Rollins_11:

(Start: 5 @8156 has 25 MA's), (6, 8162), (7, 8177), (8, 8183), (14, 8315), (15, 8468), (16, 8474), (17, 8507), (23, 8582), (25, 8588), (27, 8594),

Gene: Ruchi_13 Start: 9071, Stop: 9901, Start Num: 5

Candidate Starts for Ruchi_13:

(Start: 5 @9071 has 25 MA's), (15, 9380), (19, 9446), (26, 9503), (30, 9575), (31, 9608), (34, 9662), (36, 9707), (38, 9782),

Gene: Shayna_11 Start: 8161, Stop: 8745, Start Num: 5

Candidate Starts for Shayna_11:

(Start: 5 @8161 has 25 MA's), (7, 8182), (13, 8299), (15, 8467), (17, 8506), (24, 8584),

Gene: Skylord_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Skylord_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: Squircle_12 Start: 8549, Stop: 9136, Start Num: 5

Candidate Starts for Squircle_12:

(Start: 5 @8549 has 25 MA's), (8, 8576), (13, 8690), (17, 8897), (20, 8930), (23, 8972), (24, 8975), (27, 8984),

Gene: SunnyD_11 Start: 8161, Stop: 8745, Start Num: 5

Candidate Starts for SunnyD_11:

(Start: 5 @8161 has 25 MA's), (7, 8182), (13, 8299), (15, 8467), (17, 8506), (24, 8584),

Gene: Teagster_11 Start: 8161, Stop: 8745, Start Num: 5

Candidate Starts for Teagster_11:

(Start: 5 @8161 has 25 MA's), (7, 8182), (15, 8467), (17, 8506), (24, 8584),

Gene: Vitas_11 Start: 8096, Stop: 8680, Start Num: 5

Candidate Starts for Vitas_11:

(Start: 5 @8096 has 25 MA's), (6, 8102), (7, 8117), (8, 8123), (14, 8255), (15, 8408), (16, 8414), (17, 8447), (23, 8522), (25, 8528), (27, 8534),

Gene: Vulpecula_13 Start: 9147, Stop: 9977, Start Num: 5

Candidate Starts for Vulpecula_13:

(Start: 5 @9147 has 25 MA's), (15, 9456), (19, 9522), (26, 9579), (30, 9651), (31, 9684), (32, 9696), (34, 9738), (35, 9768), (36, 9783), (38, 9858),