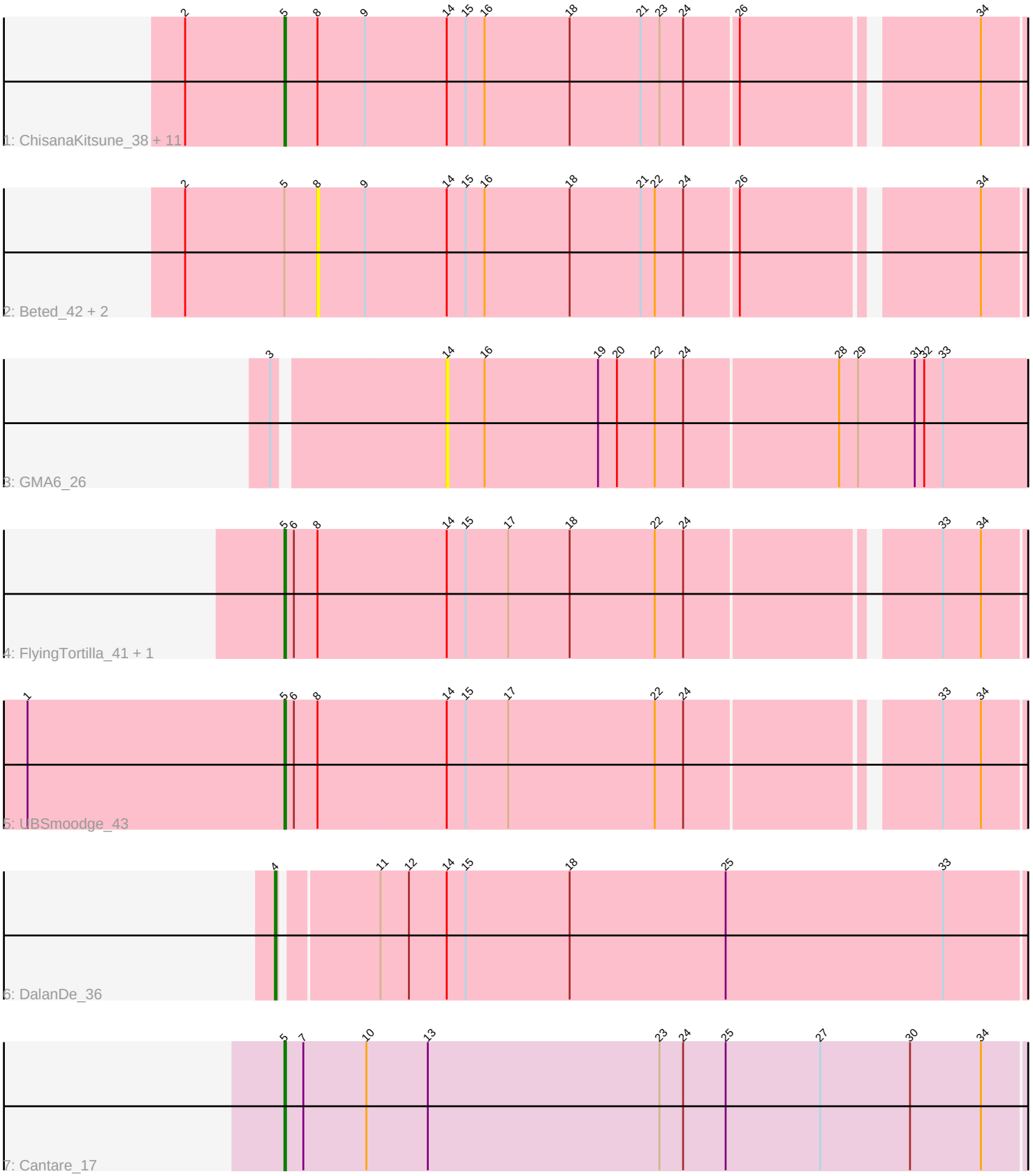
Pham 216571


2
5
8
9
14
15
16
18
21
23
24
26
34
1: ChisanaKitsune_38 + 11
2
5
8
9
14
15
16
18
21
22
24
26
34
2: Beted_42 + 2
3
14
16
19
20
22
24
28
29
31
32
33
3: GMA6_26
5
6
8
14
15
17
18
22
24
33
34
4: FlyingTortilla_41 + 1
1
5
6
8
14
15
17
22
24
33
34
5: UBSmoodge_43
4
11
12
14
15
18
25
33
6: DalanDe_36
5
7
10
13
23
24
25
27
30
34
7: Cantare_17

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 216571 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216571 has 21 members, 10 are drafts.

Phages represented in each track:
• Track 1 : ChisanaKitsune_38, Twin_40, Schomber_41, Chidiebere_42, Pakusa_40, Aloki_40, Toneprano_40, EmoNemo_40, MintFritos_40, Kabocha_43, Hanem_42, Gray_42
• Track 2 : Beted_42, Lenoshki_42, Oogie_42
• Track 3 : GMA6_26
• Track 4 : FlyingTortilla_41, ScarletRaider_41
• Track 5 : UBSmoodge_43
• Track 6 : DalanDe_36
• Track 7 : Cantare_17

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 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_40, Cantare_17, Chidiebere_42, ChisanaKitsune_38, EmoNemo_40, FlyingTortilla_41, Gray_42, Hanem_42, Kabocha_43, MintFritos_40, Pakusa_40, ScarletRaider_41, Schomber_41, Toneprano_40, Twin_40, UBSmoodge_43,

Genes that have the "Most Annotated" start but do not call it:
• Beted_42, Lenoshki_42, Oogie_42,

Genes that do not have the "Most Annotated" start:
• DalanDe_36, GMA6_26,

Summary by start number:

Start 4:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_36 (DQ),

Start 5:
• Found in 19 of 21 (90.5%) of genes in pham
• Manual Annotations of this start: 10 of 11
• Called 84.2% of time when present
• Phage (with cluster) where this start called: Aloki_40 (DQ), Cantare_17 (singleton), Chidiebere_42 (DQ), ChisanaKitsune_38 (DQ), EmoNemo_40 (DQ), FlyingTortilla_41 (DQ), Gray_42 (DQ), Hanem_42 (DQ), Kabocha_43 (DQ), MintFritos_40 (DQ), Pakusa_40 (DQ), ScarletRaider_41 (DQ), Schomber_41 (DQ), Toneprano_40 (DQ), Twin_40 (DQ), UBSmoodge_43 (DQ),

Start 8:
• Found in 18 of 21 (85.7%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Beted_42 (DQ), Lenoshki_42 (DQ), Oogie_42 (DQ),

Start 14:
• Found in 20 of 21 (95.2%) of genes in pham
• No Manual Annotations of this start.
• Called 5.0% of time when present
• Phage (with cluster) where this start called: GMA6_26 (DQ),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:
•Start number 4 was manually annotated 1 time for cluster DQ.
•Start number 5 was manually annotated 9 times for cluster DQ.

Gene Information:

Gene: Aloki_40 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for Aloki_40:
(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: Beted_42 Start: 31528, Stop: 31962, Start Num: 8
Candidate Starts for Beted_42:
(2, 31444), (Start: 5 @31507 has 10 MA's), (8, 31528), (9, 31558), (14, 31609), (15, 31621), (16, 31633), (18, 31687), (21, 31732), (22, 31741), (24, 31759), (26, 31792), (34, 31930),

Gene: Cantare_17 Start: 16184, Stop: 16657, Start Num: 5
Candidate Starts for Cantare_17:
(Start: 5 @16184 has 10 MA's), (7, 16196), (10, 16235), (13, 16274), (23, 16421), (24, 16436), (25, 16463), (27, 16523), (30, 16580), (34, 16625),

Gene: Chidiebere_42 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for Chidiebere_42:

(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: ChisanaKitsune_38 Start: 28618, Stop: 29073, Start Num: 5
Candidate Starts for ChisanaKitsune_38:
(2, 28555), (Start: 5 @28618 has 10 MA's), (8, 28639), (9, 28669), (14, 28720), (15, 28732), (16, 28744), (18, 28798), (21, 28843), (23, 28855), (24, 28870), (26, 28903), (34, 29041),

Gene: DalanDe_36 Start: 32484, Stop: 32954, Start Num: 4
Candidate Starts for DalanDe_36:
(Start: 4 @32484 has 1 MA's), (11, 32541), (12, 32559), (14, 32583), (15, 32595), (18, 32661), (25, 32760), (33, 32898),

Gene: EmoNemo_40 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for EmoNemo_40:
(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: FlyingTortilla_41 Start: 32692, Stop: 33147, Start Num: 5
Candidate Starts for FlyingTortilla_41:
(Start: 5 @32692 has 10 MA's), (6, 32698), (8, 32713), (14, 32794), (15, 32806), (17, 32833), (18, 32872), (22, 32926), (24, 32944), (33, 33091), (34, 33115),

Gene: GMA6_26 Start: 20625, Stop: 20996, Start Num: 14
Candidate Starts for GMA6_26:
(3, 20523), (14, 20625), (16, 20649), (19, 20721), (20, 20733), (22, 20757), (24, 20775), (28, 20871), (29, 20883), (31, 20919), (32, 20925), (33, 20937),

Gene: Gray_42 Start: 29828, Stop: 30283, Start Num: 5
Candidate Starts for Gray_42:
(2, 29765), (Start: 5 @29828 has 10 MA's), (8, 29849), (9, 29879), (14, 29930), (15, 29942), (16, 29954), (18, 30008), (21, 30053), (23, 30065), (24, 30080), (26, 30113), (34, 30251),

Gene: Hanem_42 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for Hanem_42:
(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: Kabocha_43 Start: 30640, Stop: 31095, Start Num: 5
Candidate Starts for Kabocha_43:
(2, 30577), (Start: 5 @30640 has 10 MA's), (8, 30661), (9, 30691), (14, 30742), (15, 30754), (16, 30766), (18, 30820), (21, 30865), (23, 30877), (24, 30892), (26, 30925), (34, 31063),

Gene: Lenoshki_42 Start: 31528, Stop: 31962, Start Num: 8
Candidate Starts for Lenoshki_42:
(2, 31444), (Start: 5 @31507 has 10 MA's), (8, 31528), (9, 31558), (14, 31609), (15, 31621), (16, 31633), (18, 31687), (21, 31732), (22, 31741), (24, 31759), (26, 31792), (34, 31930),

Gene: MintFritos_40 Start: 29828, Stop: 30283, Start Num: 5
Candidate Starts for MintFritos_40:
(2, 29765), (Start: 5 @29828 has 10 MA's), (8, 29849), (9, 29879), (14, 29930), (15, 29942), (16, 29954), (18, 30008), (21, 30053), (23, 30065), (24, 30080), (26, 30113), (34, 30251),

Gene: Oogie_42 Start: 31554, Stop: 31988, Start Num: 8
Candidate Starts for Oogie_42:
(2, 31470), (Start: 5 @31533 has 10 MA's), (8, 31554), (9, 31584), (14, 31635), (15, 31647), (16, 31659), (18, 31713), (21, 31758), (22, 31767), (24, 31785), (26, 31818), (34, 31956),

Gene: Pakusa_40 Start: 29569, Stop: 30024, Start Num: 5
Candidate Starts for Pakusa_40:
(2, 29506), (Start: 5 @29569 has 10 MA's), (8, 29590), (9, 29620), (14, 29671), (15, 29683), (16, 29695), (18, 29749), (21, 29794), (23, 29806), (24, 29821), (26, 29854), (34, 29992),

Gene: ScarletRaider_41 Start: 32719, Stop: 33174, Start Num: 5
Candidate Starts for ScarletRaider_41:
(Start: 5 @32719 has 10 MA's), (6, 32725), (8, 32740), (14, 32821), (15, 32833), (17, 32860), (18, 32899), (22, 32953), (24, 32971), (33, 33118), (34, 33142),

Gene: Schomber_41 Start: 29577, Stop: 30032, Start Num: 5
Candidate Starts for Schomber_41:
(2, 29514), (Start: 5 @29577 has 10 MA's), (8, 29598), (9, 29628), (14, 29679), (15, 29691), (16, 29703), (18, 29757), (21, 29802), (23, 29814), (24, 29829), (26, 29862), (34, 30000),

Gene: Toneprano_40 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for Toneprano_40:
(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: Twin_40 Start: 29827, Stop: 30282, Start Num: 5
Candidate Starts for Twin_40:
(2, 29764), (Start: 5 @29827 has 10 MA's), (8, 29848), (9, 29878), (14, 29929), (15, 29941), (16, 29953), (18, 30007), (21, 30052), (23, 30064), (24, 30079), (26, 30112), (34, 30250),

Gene: UBSmoodge_43 Start: 32453, Stop: 32908, Start Num: 5
Candidate Starts for UBSmoodge_43:
(1, 32291), (Start: 5 @32453 has 10 MA's), (6, 32459), (8, 32474), (14, 32555), (15, 32567), (17, 32594), (22, 32687), (24, 32705), (33, 32852), (34, 32876),