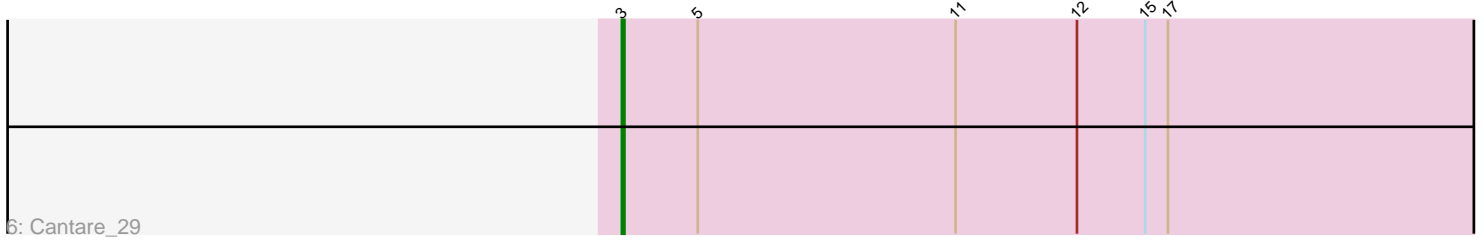
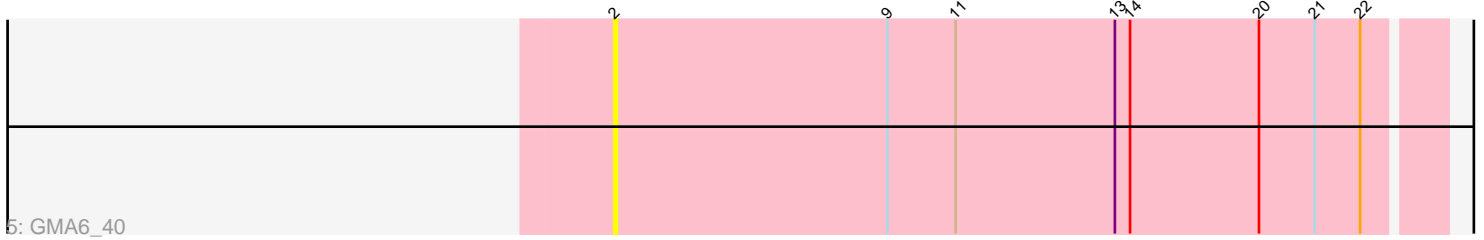
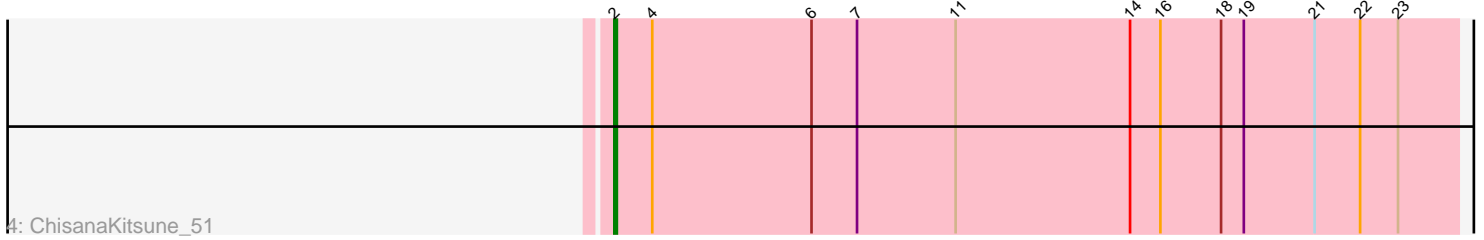
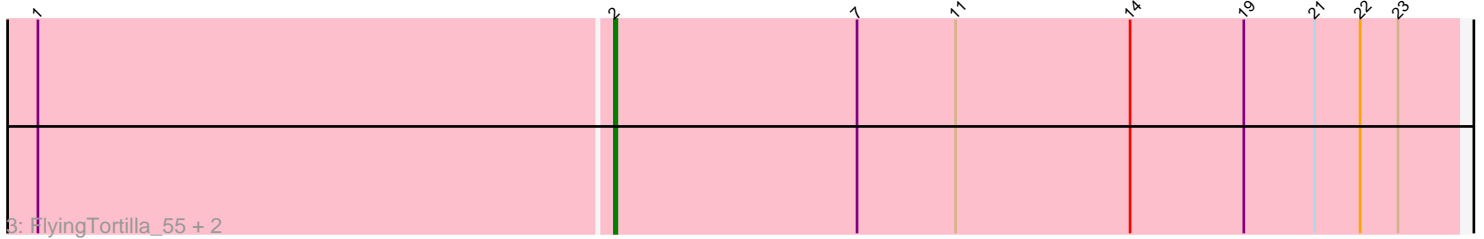
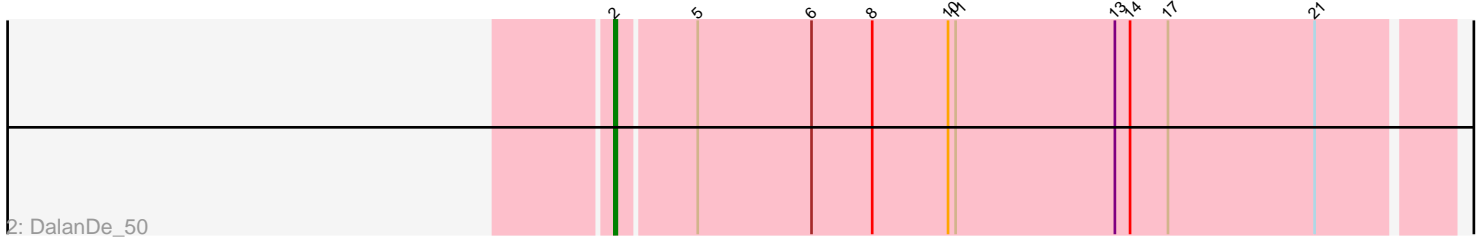
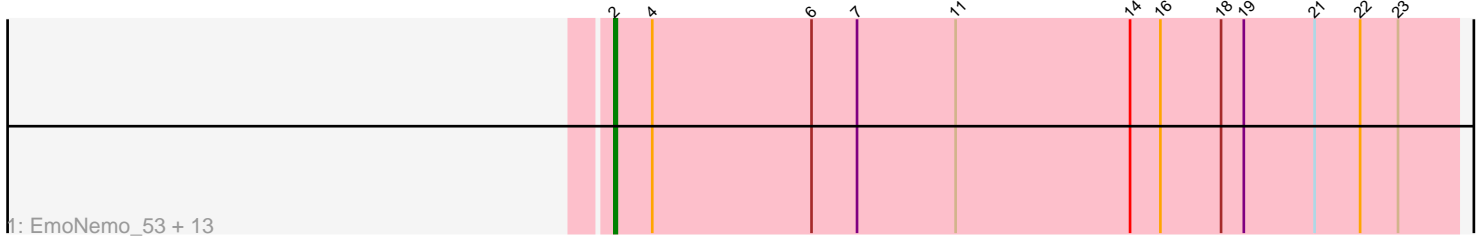


Pham 221778



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 221778 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221778 has 21 members, 10 are drafts.

Phages represented in each track:

- Track 1 : EmoNemo_53, Pakusa_53, Schomber_54, Oogie_55, Beted_55, Lenoshki_55, Kabocha_56, Chidiebere_55, Toneprano_53, Aloki_53, Hanem_55, Gray_55, MintFritos_53, Twin_53
- Track 2 : DalanDe_50
- Track 3 : FlyingTortilla_55, UBSmoodge_57, ScarletRaider_54
- Track 4 : ChisanaKitsune_51
- Track 5 : GMA6_40
- Track 6 : Cantare_29

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

The start number called the most often in the published annotations is 2, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki_53, Beted_55, Chidiebere_55, ChisanaKitsune_51, DalanDe_50, EmoNemo_53, FlyingTortilla_55, GMA6_40, Gray_55, Hanem_55, Kabocha_56, Lenoshki_55, MintFritos_53, Oogie_55, Pakusa_53, ScarletRaider_54, Schomber_54, Toneprano_53, Twin_53, UBSmoodge_57,

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

-

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

- Cantare_29,

Summary by start number:

Start 2:

- Found in 20 of 21 (95.2%) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki_53 (DQ), Beted_55 (DQ), Chidiebere_55 (DQ), ChisanaKitsune_51 (DQ), DalanDe_50 (DQ), EmoNemo_53

(DQ), FlyingTortilla_55 (DQ), GMA6_40 (DQ), Gray_55 (DQ), Hanem_55 (DQ), Kabocha_56 (DQ), Lenoshki_55 (DQ), MintFritos_53 (DQ), Oogie_55 (DQ), Pakusa_53 (DQ), ScarletRaider_54 (DQ), Schomber_54 (DQ), Toneprano_53 (DQ), Twin_53 (DQ), UBSmoodge_57 (DQ),

Start 3:

- 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: Cantare_29 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster DQ:

- Start number 2 was manually annotated 10 times for cluster DQ.

Gene Information:

Gene: Alok_i_53 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for Alok_i_53:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: Beted_55 Start: 43438, Stop: 43770, Start Num: 2

Candidate Starts for Beted_55:

(Start: 2 @43438 has 10 MA's), (4, 43453), (6, 43516), (7, 43534), (11, 43573), (14, 43642), (16, 43654), (18, 43678), (19, 43687), (21, 43714), (22, 43732), (23, 43747),

Gene: Cantare_29 Start: 26667, Stop: 27005, Start Num: 3

Candidate Starts for Cantare_29:

(Start: 3 @26667 has 1 MA's), (5, 26697), (11, 26799), (12, 26847), (15, 26874), (17, 26883),

Gene: Chidiebere_55 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for Chidiebere_55:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: ChisanaKitsune_51 Start: 40549, Stop: 40881, Start Num: 2

Candidate Starts for ChisanaKitsune_51:

(Start: 2 @40549 has 10 MA's), (4, 40564), (6, 40627), (7, 40645), (11, 40684), (14, 40753), (16, 40765), (18, 40789), (19, 40798), (21, 40825), (22, 40843), (23, 40858),

Gene: DalanDe_50 Start: 44690, Stop: 45013, Start Num: 2

Candidate Starts for DalanDe_50:

(Start: 2 @44690 has 10 MA's), (5, 44720), (6, 44765), (8, 44789), (10, 44819), (11, 44822), (13, 44885), (14, 44891), (17, 44906), (21, 44963),

Gene: EmoNemo_53 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for EmoNemo_53:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: FlyingTortilla_55 Start: 45339, Stop: 45671, Start Num: 2

Candidate Starts for FlyingTortilla_55:

(1, 45114), (Start: 2 @45339 has 10 MA's), (7, 45435), (11, 45474), (14, 45543), (19, 45588), (21, 45615), (22, 45633), (23, 45648),

Gene: GMA6_40 Start: 33089, Stop: 33412, Start Num: 2

Candidate Starts for GMA6_40:

(Start: 2 @33089 has 10 MA's), (9, 33197), (11, 33224), (13, 33287), (14, 33293), (20, 33344), (21, 33365), (22, 33383),

Gene: Gray_55 Start: 41759, Stop: 42091, Start Num: 2

Candidate Starts for Gray_55:

(Start: 2 @41759 has 10 MA's), (4, 41774), (6, 41837), (7, 41855), (11, 41894), (14, 41963), (16, 41975), (18, 41999), (19, 42008), (21, 42035), (22, 42053), (23, 42068),

Gene: Hanem_55 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for Hanem_55:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: Kabocha_56 Start: 42571, Stop: 42903, Start Num: 2

Candidate Starts for Kabocha_56:

(Start: 2 @42571 has 10 MA's), (4, 42586), (6, 42649), (7, 42667), (11, 42706), (14, 42775), (16, 42787), (18, 42811), (19, 42820), (21, 42847), (22, 42865), (23, 42880),

Gene: Lenoshki_55 Start: 43438, Stop: 43770, Start Num: 2

Candidate Starts for Lenoshki_55:

(Start: 2 @43438 has 10 MA's), (4, 43453), (6, 43516), (7, 43534), (11, 43573), (14, 43642), (16, 43654), (18, 43678), (19, 43687), (21, 43714), (22, 43732), (23, 43747),

Gene: MintFritos_53 Start: 41759, Stop: 42091, Start Num: 2

Candidate Starts for MintFritos_53:

(Start: 2 @41759 has 10 MA's), (4, 41774), (6, 41837), (7, 41855), (11, 41894), (14, 41963), (16, 41975), (18, 41999), (19, 42008), (21, 42035), (22, 42053), (23, 42068),

Gene: Oogie_55 Start: 43464, Stop: 43796, Start Num: 2

Candidate Starts for Oogie_55:

(Start: 2 @43464 has 10 MA's), (4, 43479), (6, 43542), (7, 43560), (11, 43599), (14, 43668), (16, 43680), (18, 43704), (19, 43713), (21, 43740), (22, 43758), (23, 43773),

Gene: Pakusa_53 Start: 41500, Stop: 41832, Start Num: 2

Candidate Starts for Pakusa_53:

(Start: 2 @41500 has 10 MA's), (4, 41515), (6, 41578), (7, 41596), (11, 41635), (14, 41704), (16, 41716), (18, 41740), (19, 41749), (21, 41776), (22, 41794), (23, 41809),

Gene: ScarletRaider_54 Start: 44647, Stop: 44979, Start Num: 2

Candidate Starts for ScarletRaider_54:

(1, 44422), (Start: 2 @44647 has 10 MA's), (7, 44743), (11, 44782), (14, 44851), (19, 44896), (21, 44923), (22, 44941), (23, 44956),

Gene: Schomber_54 Start: 41508, Stop: 41840, Start Num: 2

Candidate Starts for Schomber_54:

(Start: 2 @41508 has 10 MA's), (4, 41523), (6, 41586), (7, 41604), (11, 41643), (14, 41712), (16, 41724), (18, 41748), (19, 41757), (21, 41784), (22, 41802), (23, 41817),

Gene: Toneprano_53 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for Toneprano_53:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: Twin_53 Start: 41758, Stop: 42090, Start Num: 2

Candidate Starts for Twin_53:

(Start: 2 @41758 has 10 MA's), (4, 41773), (6, 41836), (7, 41854), (11, 41893), (14, 41962), (16, 41974), (18, 41998), (19, 42007), (21, 42034), (22, 42052), (23, 42067),

Gene: UBSmoodge_57 Start: 45105, Stop: 45437, Start Num: 2

Candidate Starts for UBSmoodge_57:

(1, 44880), (Start: 2 @45105 has 10 MA's), (7, 45201), (11, 45240), (14, 45309), (19, 45354), (21, 45381), (22, 45399), (23, 45414),