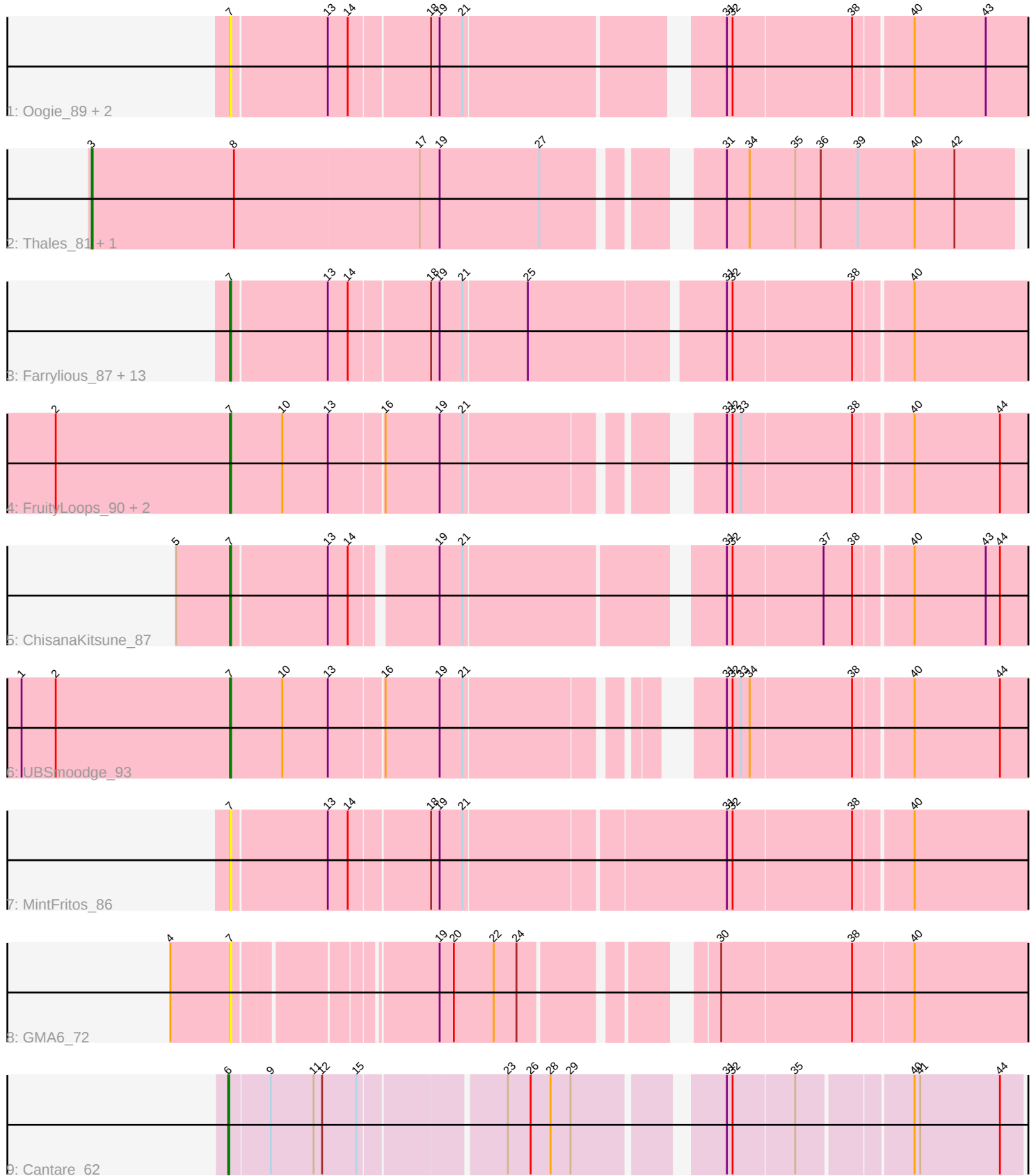


# Pham 280771



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 280771 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280771 has 27 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Oogie\_89, Lenoshki\_90, Beted\_90
- Track 2 : Thales\_81, DalanDe\_83
- Track 3 : Farrylious\_87, Twin\_85, Chidiebere\_90, Argena\_87, Hanem\_89, Toneprano\_87, Kabocha\_91, Amoonguss\_87, Pakusa\_86, Mikronejon\_86, Schomber\_88, EmoNemo\_85, Alok\_85, Gray\_90
- Track 4 : FruityLoops\_90, FlyingTortilla\_91, ScarletRaider\_90
- Track 5 : ChisanaKitsune\_87
- Track 6 : UBSmoodge\_93
- Track 7 : MintFritos\_86
- Track 8 : GMA6\_72
- Track 9 : Cantare\_62

### ***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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_85, Amoonguss\_87, Argena\_87, Beted\_90, Chidiebere\_90, ChisanaKitsune\_87, EmoNemo\_85, Farrylious\_87, FlyingTortilla\_91, FruityLoops\_90, GMA6\_72, Gray\_90, Hanem\_89, Kabocha\_91, Lenoshki\_90, Mikronejon\_86, MintFritos\_86, Oogie\_89, Pakusa\_86, ScarletRaider\_90, Schomber\_88, Toneprano\_87, Twin\_85, UBSmoodge\_93,

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

- 

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

- Cantare\_62, DalanDe\_83, Thales\_81,

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

Start 3:

- Found in 2 of 27 ( 7.4% ) 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\_83 (DQ), Thales\_81 (DQ),

Start 6:

- Found in 1 of 27 ( 3.7% ) 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\_62 (singleton),

Start 7:

- Found in 24 of 27 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok\_i\_85 (DQ), Amoonguss\_87 (DQ), Argena\_87 (DQ), Beted\_90 (DQ), Chidiebere\_90 (DQ), ChisanaKitsune\_87 (DQ), EmoNemo\_85 (DQ), Farrylous\_87 (DQ), FlyingTortilla\_91 (DQ), FruityLoops\_90 (DQ), GMA6\_72 (DQ), Gray\_90 (DQ), Hanem\_89 (DQ), Kabocha\_91 (DQ), Lenoshki\_90 (DQ), Mikronejon\_86 (DQ), MintFritos\_86 (DQ), Oogie\_89 (DQ), Pakusa\_86 (DQ), ScarletRaider\_90 (DQ), Schomber\_88 (DQ), Toneprano\_87 (DQ), Twin\_85 (DQ), UBSmoodge\_93 (DQ),

### Summary by clusters:

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

Info for manual annotations of cluster DQ:

- Start number 3 was manually annotated 1 time for cluster DQ.
- Start number 7 was manually annotated 9 times for cluster DQ.

### Gene Information:

Gene: Alok\_i\_85 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Alok\_i\_85:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Amoonguss\_87 Start: 66894, Stop: 67715, Start Num: 7

Candidate Starts for Amoonguss\_87:

(Start: 7 @66894 has 9 MA's), (13, 66993), (14, 67014), (18, 67095), (19, 67104), (21, 67128), (25, 67194), (31, 67383), (32, 67389), (38, 67512), (40, 67569),

Gene: Argena\_87 Start: 66906, Stop: 67727, Start Num: 7

Candidate Starts for Argena\_87:

(Start: 7 @66906 has 9 MA's), (13, 67005), (14, 67026), (18, 67107), (19, 67116), (21, 67140), (25, 67206), (31, 67395), (32, 67401), (38, 67524), (40, 67581),

Gene: Beted\_90 Start: 69048, Stop: 69860, Start Num: 7

Candidate Starts for Beted\_90:

(Start: 7 @69048 has 9 MA's), (13, 69147), (14, 69168), (18, 69249), (19, 69258), (21, 69282), (31, 69528), (32, 69534), (38, 69657), (40, 69714), (43, 69789),

Gene: Cantare\_62 Start: 52781, Stop: 53548, Start Num: 6

Candidate Starts for Cantare\_62:

(Start: 6 @52781 has 1 MA's), (9, 52823), (11, 52868), (12, 52877), (15, 52913), (23, 53054), (26, 53078), (28, 53099), (29, 53120), (31, 53255), (32, 53261), (35, 53324), (40, 53435), (41, 53441), (44, 53525),

Gene: Chidiebere\_90 Start: 67470, Stop: 68291, Start Num: 7

Candidate Starts for Chidiebere\_90:

(Start: 7 @67470 has 9 MA's), (13, 67569), (14, 67590), (18, 67671), (19, 67680), (21, 67704), (25, 67770), (31, 67959), (32, 67965), (38, 68088), (40, 68145),

Gene: ChisanaKitsune\_87 Start: 66644, Stop: 67441, Start Num: 7

Candidate Starts for ChisanaKitsune\_87:

(5, 66587), (Start: 7 @66644 has 9 MA's), (13, 66743), (14, 66764), (19, 66845), (21, 66869), (31, 67115), (32, 67121), (37, 67214), (38, 67244), (40, 67301), (43, 67376), (44, 67391),

Gene: DalanDe\_83 Start: 68491, Stop: 69411, Start Num: 3

Candidate Starts for DalanDe\_83:

(Start: 3 @68491 has 1 MA's), (8, 68641), (17, 68833), (19, 68854), (27, 68959), (31, 69109), (34, 69133), (35, 69181), (36, 69208), (39, 69247), (40, 69307), (42, 69349),

Gene: EmoNemo\_85 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for EmoNemo\_85:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Farrylious\_87 Start: 66673, Stop: 67494, Start Num: 7

Candidate Starts for Farrylious\_87:

(Start: 7 @66673 has 9 MA's), (13, 66772), (14, 66793), (18, 66874), (19, 66883), (21, 66907), (25, 66973), (31, 67168), (32, 67174), (38, 67297), (40, 67354),

Gene: FlyingTortilla\_91 Start: 71239, Stop: 72009, Start Num: 7

Candidate Starts for FlyingTortilla\_91:

(2, 71056), (Start: 7 @71239 has 9 MA's), (10, 71293), (13, 71341), (16, 71395), (19, 71452), (21, 71476), (31, 71689), (32, 71695), (33, 71704), (38, 71818), (40, 71875), (44, 71965),

Gene: FruityLoops\_90 Start: 70540, Stop: 71328, Start Num: 7

Candidate Starts for FruityLoops\_90:

(2, 70357), (Start: 7 @70540 has 9 MA's), (10, 70594), (13, 70642), (16, 70696), (19, 70753), (21, 70777), (31, 71002), (32, 71008), (33, 71017), (38, 71131), (40, 71188), (44, 71278),

Gene: GMA6\_72 Start: 57807, Stop: 58559, Start Num: 7

Candidate Starts for GMA6\_72:

(4, 57744), (Start: 7 @57807 has 9 MA's), (19, 57990), (20, 58005), (22, 58047), (24, 58071), (30, 58233), (38, 58368), (40, 58431),

Gene: Gray\_90 Start: 67401, Stop: 68234, Start Num: 7

Candidate Starts for Gray\_90:

(Start: 7 @67401 has 9 MA's), (13, 67500), (14, 67521), (18, 67602), (19, 67611), (21, 67635), (25, 67701), (31, 67902), (32, 67908), (38, 68031), (40, 68088),

Gene: Hanem\_89 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Hanem\_89:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Kabocha\_91 Start: 68283, Stop: 69104, Start Num: 7

Candidate Starts for Kabocha\_91:

(Start: 7 @68283 has 9 MA's), (13, 68382), (14, 68403), (18, 68484), (19, 68493), (21, 68517), (25, 68583), (31, 68772), (32, 68778), (38, 68901), (40, 68958),

Gene: Lenoshki\_90 Start: 69048, Stop: 69860, Start Num: 7

Candidate Starts for Lenoshki\_90:

(Start: 7 @69048 has 9 MA's), (13, 69147), (14, 69168), (18, 69249), (19, 69258), (21, 69282), (31, 69528), (32, 69534), (38, 69657), (40, 69714), (43, 69789),

Gene: Mikronejon\_86 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Mikronejon\_86:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: MintFritos\_86 Start: 66910, Stop: 67740, Start Num: 7

Candidate Starts for MintFritos\_86:

(Start: 7 @66910 has 9 MA's), (13, 67009), (14, 67030), (18, 67111), (19, 67120), (21, 67144), (31, 67408), (32, 67414), (38, 67537), (40, 67594),

Gene: Oogie\_89 Start: 69101, Stop: 69910, Start Num: 7

Candidate Starts for Oogie\_89:

(Start: 7 @69101 has 9 MA's), (13, 69200), (14, 69221), (18, 69302), (19, 69311), (21, 69335), (31, 69578), (32, 69584), (38, 69707), (40, 69764), (43, 69839),

Gene: Pakusa\_86 Start: 66663, Stop: 67484, Start Num: 7

Candidate Starts for Pakusa\_86:

(Start: 7 @66663 has 9 MA's), (13, 66762), (14, 66783), (18, 66864), (19, 66873), (21, 66897), (25, 66963), (31, 67152), (32, 67158), (38, 67281), (40, 67338),

Gene: ScarletRaider\_90 Start: 70504, Stop: 71280, Start Num: 7

Candidate Starts for ScarletRaider\_90:

(2, 70321), (Start: 7 @70504 has 9 MA's), (10, 70558), (13, 70606), (16, 70660), (19, 70717), (21, 70741), (31, 70960), (32, 70966), (33, 70975), (38, 71089), (40, 71146), (44, 71236),

Gene: Schomber\_88 Start: 66671, Stop: 67492, Start Num: 7

Candidate Starts for Schomber\_88:

(Start: 7 @66671 has 9 MA's), (13, 66770), (14, 66791), (18, 66872), (19, 66881), (21, 66905), (25, 66971), (31, 67160), (32, 67166), (38, 67289), (40, 67346),

Gene: Thales\_81 Start: 67018, Stop: 67938, Start Num: 3

Candidate Starts for Thales\_81:

(Start: 3 @67018 has 1 MA's), (8, 67168), (17, 67360), (19, 67381), (27, 67486), (31, 67636), (34, 67660), (35, 67708), (36, 67735), (39, 67774), (40, 67834), (42, 67876),

Gene: Toneprano\_87 Start: 66908, Stop: 67729, Start Num: 7

Candidate Starts for Toneprano\_87:

(Start: 7 @66908 has 9 MA's), (13, 67007), (14, 67028), (18, 67109), (19, 67118), (21, 67142), (25, 67208), (31, 67397), (32, 67403), (38, 67526), (40, 67583),

Gene: Twin\_85 Start: 66936, Stop: 67757, Start Num: 7

Candidate Starts for Twin\_85:

(Start: 7 @66936 has 9 MA's), (13, 67035), (14, 67056), (18, 67137), (19, 67146), (21, 67170), (25, 67236), (31, 67425), (32, 67431), (38, 67554), (40, 67611),

Gene: UBSmoodge\_93 Start: 70944, Stop: 71720, Start Num: 7

Candidate Starts for UBSmoodge\_93:

(1, 70725), (2, 70761), (Start: 7 @70944 has 9 MA's), (10, 70998), (13, 71046), (16, 71100), (19, 71157), (21, 71181), (31, 71394), (32, 71400), (33, 71409), (34, 71418), (38, 71523), (40, 71580), (44, 71670),