

Pham 285754



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 285754 Report

This analysis was run 03/28/26 on database version 641.

Pham number 285754 has 34 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph\_80, BenitoAntonio\_85, Benllo\_82, Bowling\_87, GoCrazy\_82, Cheesy\_86, KeaneyLin\_82
- Track 2 : Heisenberger\_84, Elsa\_85, Correa\_83, Tribby\_87, Mooshroom\_86, Arcadia\_85, Hankly\_85, JEGGS\_84, Mudcat\_81, Dynamite\_85, Circum\_85, Kardesai\_85, Nason\_85, NapoleonB\_86, YoshiYama\_86
- Track 3 : Anandi\_81
- Track 4 : Adat\_53, Nellie\_53, GurgleFerb\_53
- Track 5 : Casserole\_53
- Track 6 : Brad\_53
- Track 7 : Jasmine\_56
- Track 8 : Phroglets\_44
- Track 9 : Onestar\_77
- Track 10 : Powelldog\_81
- Track 11 : Sprinkle\_78
- Track 12 : Sporto\_76

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

The start number called the most often in the published annotations is 17, it was called in 21 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_85, BenitoAntonio\_85, Benllo\_82, Bowling\_87, Cheesy\_86, Circum\_85, Correa\_83, Dynamite\_85, Elsa\_85, GoCrazy\_82, Hankly\_85, Heisenberger\_84, JEGGS\_84, Kardesai\_85, KeaneyLin\_82, Mooshroom\_86, Mudcat\_81, NapoleonB\_86, Nason\_85, Tribby\_87, Xenomorph\_80, YoshiYama\_86,

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

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

- Adat\_53, Anandi\_81, Brad\_53, Casserole\_53, GurgleFerb\_53, Jasmine\_56, Nellie\_53, Onestar\_77, Phroglets\_44, Powelldog\_81, Sporto\_76, Sprinkle\_78,

## Summary by start number:

### Start 11:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phroglets\_44 (AV),

### Start 12:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Powellldog\_81 (AW),

### Start 13:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jasmine\_56 (AV),

### Start 14:

- Found in 6 of 34 ( 17.6% ) of genes in pham
- Manual Annotations of this start: 5 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adat\_53 (AV), Brad\_53 (AV), Casserole\_53 (AV), GurgleFerb\_53 (AV), Nellie\_53 (AV), Onestar\_77 (AW),

### Start 15:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sporto\_76 (AW),

### Start 16:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sprinkle\_78 (AW),

### Start 17:

- Found in 22 of 34 ( 64.7% ) of genes in pham
- Manual Annotations of this start: 21 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_85 (AM), BenitoAntonio\_85 (AM), Benllo\_82 (AM), Bowling\_87 (AM), Cheesy\_86 (AM), Circum\_85 (AM), Correa\_83 (AM), Dynamite\_85 (AM), Elsa\_85 (AM), GoCrazy\_82 (AM), Hankly\_85 (AM), Heisenberger\_84 (AM), JEGGS\_84 (AM), Kardesai\_85 (AM), KeaneyLin\_82 (AM), Mooshroom\_86 (AM), Mudcat\_81 (AM), NapoleonB\_86 (AM), Nason\_85 (AM), Tribby\_87 (AM), Xenomorph\_80 (AM), YoshiYama\_86 (AM),

### Start 18:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi\_81 (AU4),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AM, AU4, AW, AV,

Info for manual annotations of cluster AM:

- Start number 17 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AV:

- Start number 11 was manually annotated 1 time for cluster AV.
- Start number 13 was manually annotated 1 time for cluster AV.
- Start number 14 was manually annotated 5 times for cluster AV.

Info for manual annotations of cluster AW:

- Start number 12 was manually annotated 1 time for cluster AW.
- Start number 15 was manually annotated 1 time for cluster AW.

### **Gene Information:**

Gene: Adat\_53 Start: 43182, Stop: 42778, Start Num: 14

Candidate Starts for Adat\_53:

(Start: 14 @43182 has 5 MA's), (28, 42993), (29, 42972), (32, 42951), (35, 42906), (43, 42807),

Gene: Anandi\_81 Start: 50714, Stop: 51127, Start Num: 18

Candidate Starts for Anandi\_81:

(18, 50714), (21, 50774), (40, 51062), (45, 51089), (46, 51104),

Gene: Arcadia\_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Arcadia\_85:

(Start: 17 @50574 has 21 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: BenitoAntonio\_85 Start: 50151, Stop: 50555, Start Num: 17

Candidate Starts for BenitoAntonio\_85:

(Start: 17 @50151 has 21 MA's), (19, 50187), (23, 50265), (25, 50298), (31, 50358), (34, 50394), (38, 50448), (44, 50520),

Gene: Benllo\_82 Start: 50469, Stop: 50873, Start Num: 17

Candidate Starts for Benllo\_82:

(Start: 17 @50469 has 21 MA's), (19, 50505), (23, 50583), (25, 50616), (31, 50676), (34, 50712), (38, 50766), (44, 50838),

Gene: Bowling\_87 Start: 50927, Stop: 51331, Start Num: 17

Candidate Starts for Bowling\_87:

(Start: 17 @50927 has 21 MA's), (19, 50963), (23, 51041), (25, 51074), (31, 51134), (34, 51170), (38, 51224), (44, 51296),

Gene: Brad\_53 Start: 43174, Stop: 42776, Start Num: 14

Candidate Starts for Brad\_53:

(Start: 14 @43174 has 5 MA's), (28, 42985), (29, 42964), (32, 42943), (35, 42898),

Gene: Casserole\_53 Start: 44279, Stop: 43875, Start Num: 14

Candidate Starts for Casserole\_53:

(3, 44435), (4, 44426), (5, 44393), (7, 44375), (8, 44372), (Start: 14 @44279 has 5 MA's), (28, 44090), (29, 44069), (32, 44048), (35, 44003), (39, 43958), (43, 43907),

Gene: Cheesy\_86 Start: 50366, Stop: 50770, Start Num: 17

Candidate Starts for Cheesy\_86:

(Start: 17 @50366 has 21 MA's), (19, 50402), (23, 50480), (25, 50513), (31, 50573), (34, 50609), (38, 50663), (44, 50735),

Gene: Circum\_85 Start: 50423, Stop: 50827, Start Num: 17

Candidate Starts for Circum\_85:

(Start: 17 @50423 has 21 MA's), (19, 50459), (23, 50537), (25, 50570), (31, 50630), (34, 50666), (38, 50720), (44, 50792),

Gene: Correa\_83 Start: 49923, Stop: 50327, Start Num: 17

Candidate Starts for Correa\_83:

(Start: 17 @49923 has 21 MA's), (19, 49959), (23, 50037), (25, 50070), (31, 50130), (34, 50166), (38, 50220), (44, 50292),

Gene: Dynamite\_85 Start: 49942, Stop: 50346, Start Num: 17

Candidate Starts for Dynamite\_85:

(Start: 17 @49942 has 21 MA's), (19, 49978), (23, 50056), (25, 50089), (31, 50149), (34, 50185), (38, 50239), (44, 50311),

Gene: Elsa\_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Elsa\_85:

(Start: 17 @50574 has 21 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: GoCrazy\_82 Start: 49202, Stop: 49606, Start Num: 17

Candidate Starts for GoCrazy\_82:

(Start: 17 @49202 has 21 MA's), (19, 49238), (23, 49316), (25, 49349), (31, 49409), (34, 49445), (38, 49499), (44, 49571),

Gene: GurgleFerb\_53 Start: 43181, Stop: 42777, Start Num: 14

Candidate Starts for GurgleFerb\_53:

(Start: 14 @43181 has 5 MA's), (28, 42992), (29, 42971), (32, 42950), (35, 42905), (43, 42806),

Gene: Hankly\_85 Start: 49580, Stop: 49984, Start Num: 17

Candidate Starts for Hankly\_85:

(Start: 17 @49580 has 21 MA's), (19, 49616), (23, 49694), (25, 49727), (31, 49787), (34, 49823), (38, 49877), (44, 49949),

Gene: Heisenberger\_84 Start: 49831, Stop: 50235, Start Num: 17

Candidate Starts for Heisenberger\_84:

(Start: 17 @49831 has 21 MA's), (19, 49867), (23, 49945), (25, 49978), (31, 50038), (34, 50074), (38, 50128), (44, 50200),

Gene: JEGGS\_84 Start: 49910, Stop: 50314, Start Num: 17

Candidate Starts for JEGGS\_84:

(Start: 17 @49910 has 21 MA's), (19, 49946), (23, 50024), (25, 50057), (31, 50117), (34, 50153), (38, 50207), (44, 50279),

Gene: Jasmine\_56 Start: 44695, Stop: 44300, Start Num: 13

Candidate Starts for Jasmine\_56:

(Start: 13 @44695 has 1 MA's), (32, 44461), (35, 44416), (39, 44371), (43, 44320),

Gene: Kardesai\_85 Start: 49517, Stop: 49921, Start Num: 17

Candidate Starts for Kardesai\_85:

(Start: 17 @49517 has 21 MA's), (19, 49553), (23, 49631), (25, 49664), (31, 49724), (34, 49760), (38, 49814), (44, 49886),

Gene: KeaneyLin\_82 Start: 49645, Stop: 50049, Start Num: 17

Candidate Starts for KeaneyLin\_82:

(Start: 17 @49645 has 21 MA's), (19, 49681), (23, 49759), (25, 49792), (31, 49852), (34, 49888), (38, 49942), (44, 50014),

Gene: Mooshroom\_86 Start: 49517, Stop: 49921, Start Num: 17

Candidate Starts for Mooshroom\_86:

(Start: 17 @49517 has 21 MA's), (19, 49553), (23, 49631), (25, 49664), (31, 49724), (34, 49760), (38, 49814), (44, 49886),

Gene: Mudcat\_81 Start: 51268, Stop: 51672, Start Num: 17

Candidate Starts for Mudcat\_81:

(Start: 17 @51268 has 21 MA's), (19, 51304), (23, 51382), (25, 51415), (31, 51475), (34, 51511), (38, 51565), (44, 51637),

Gene: NapoleonB\_86 Start: 49942, Stop: 50346, Start Num: 17

Candidate Starts for NapoleonB\_86:

(Start: 17 @49942 has 21 MA's), (19, 49978), (23, 50056), (25, 50089), (31, 50149), (34, 50185), (38, 50239), (44, 50311),

Gene: Nason\_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Nason\_85:

(Start: 17 @50574 has 21 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: Nellie\_53 Start: 43182, Stop: 42778, Start Num: 14

Candidate Starts for Nellie\_53:

(Start: 14 @43182 has 5 MA's), (28, 42993), (29, 42972), (32, 42951), (35, 42906), (43, 42807),

Gene: Onestar\_77 Start: 48716, Stop: 49147, Start Num: 14

Candidate Starts for Onestar\_77:

(Start: 14 @48716 has 5 MA's), (27, 48905), (33, 48971), (35, 48995), (42, 49088),

Gene: Phroglets\_44 Start: 39189, Stop: 38710, Start Num: 11

Candidate Starts for Phroglets\_44:

(Start: 11 @39189 has 1 MA's), (19, 39096), (21, 39069), (30, 38922), (34, 38880), (36, 38856),

Gene: Powelldog\_81 Start: 49417, Stop: 49851, Start Num: 12

Candidate Starts for Powelldog\_81:

(2, 49252), (6, 49312), (9, 49330), (Start: 12 @49417 has 1 MA's), (22, 49513), (27, 49606), (29, 49630), (33, 49672), (35, 49696), (37, 49708), (41, 49783),

Gene: Sporto\_76 Start: 49277, Stop: 49711, Start Num: 15

Candidate Starts for Sporto\_76:

(10, 49196), (Start: 15 @49277 has 1 MA's), (20, 49328), (24, 49439), (33, 49532), (35, 49556), (41, 49643), (42, 49649),

Gene: Sprinkle\_78 Start: 49214, Stop: 49645, Start Num: 16

Candidate Starts for Sprinkle\_78:

(1, 49022), (2, 49043), (6, 49103), (9, 49121), (16, 49214), (20, 49265), (26, 49394), (27, 49403), (29, 49427), (33, 49469), (41, 49580),

Gene: Tribby\_87 Start: 50701, Stop: 51105, Start Num: 17

Candidate Starts for Tribby\_87:

(Start: 17 @50701 has 21 MA's), (19, 50737), (23, 50815), (25, 50848), (31, 50908), (34, 50944), (38, 50998), (44, 51070),

Gene: Xenomorph\_80 Start: 50228, Stop: 50632, Start Num: 17

Candidate Starts for Xenomorph\_80:

(Start: 17 @50228 has 21 MA's), (19, 50264), (23, 50342), (25, 50375), (31, 50435), (34, 50471), (38, 50525), (44, 50597),

Gene: YoshiYama\_86 Start: 50980, Stop: 51384, Start Num: 17

Candidate Starts for YoshiYama\_86:

(Start: 17 @50980 has 21 MA's), (19, 51016), (23, 51094), (25, 51127), (31, 51187), (34, 51223), (38, 51277), (44, 51349),