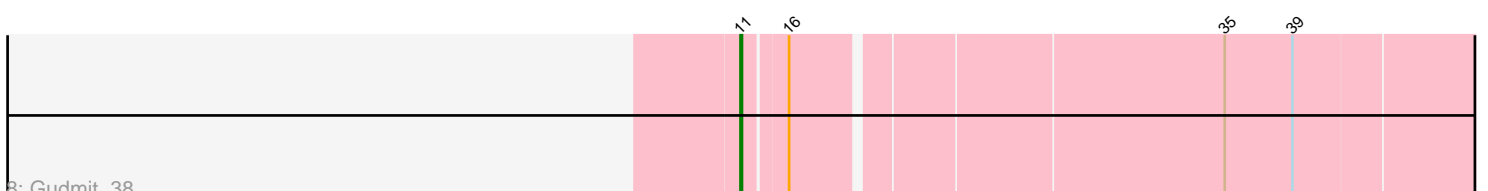
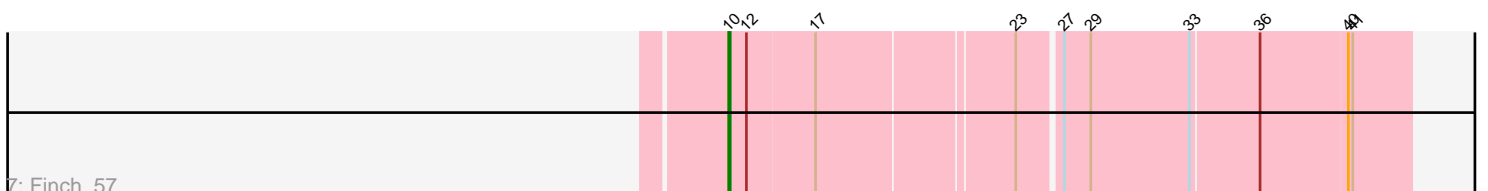
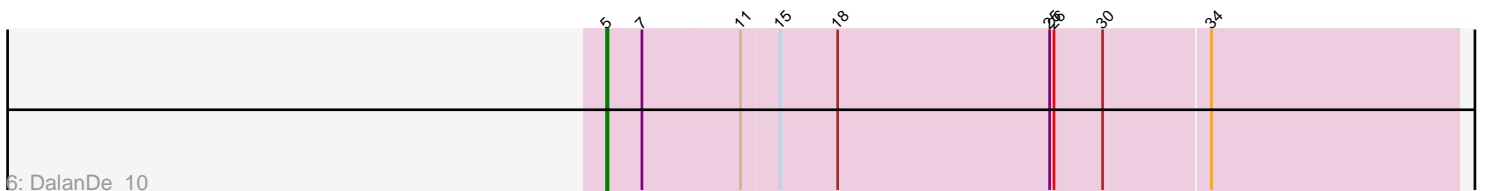
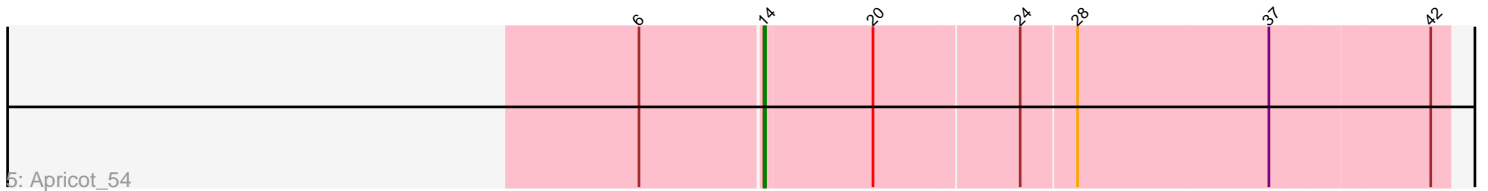
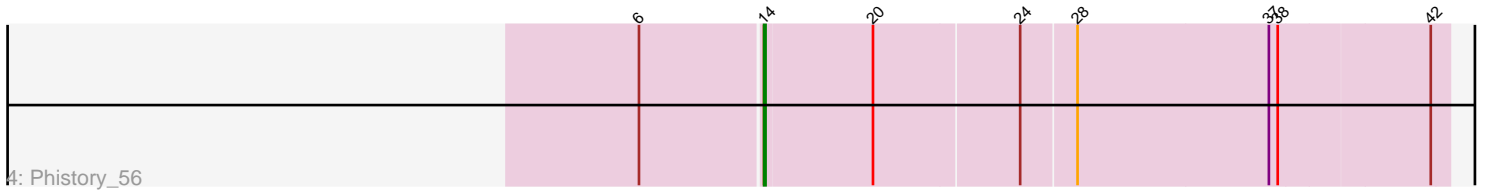
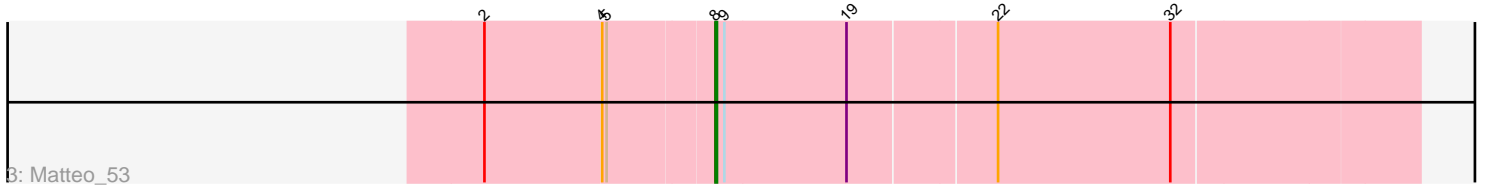
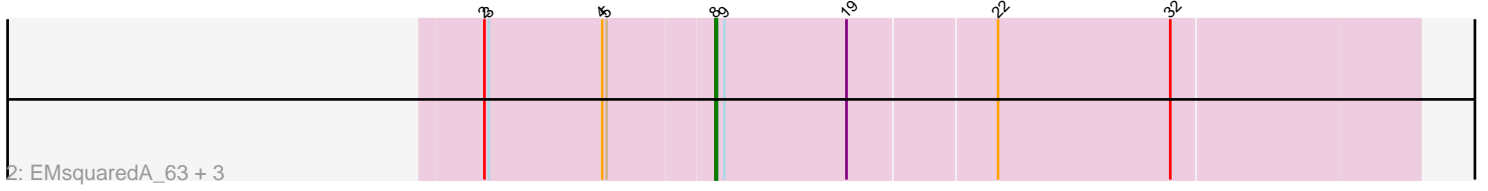
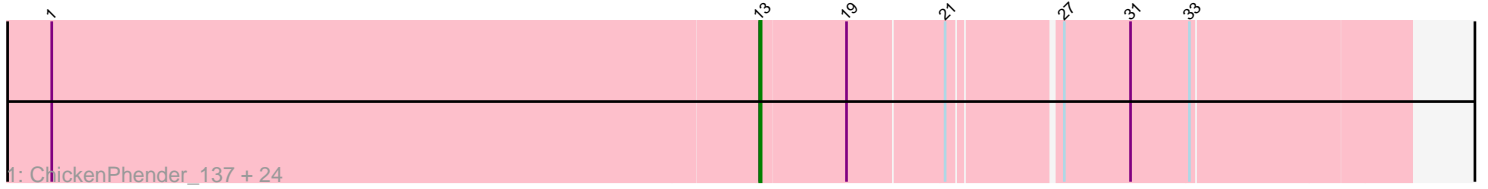


# Pham 216373



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 216373 Report

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

Pham number 216373 has 35 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ChickenPhender\_137, DeejaClivia\_128, Cali\_136, CharlieB\_138, Shaqnato\_134, Breeniome\_140, Koguma\_138, Fludd\_142, Phox\_138, Jessibeth14\_140, Burrough\_141, Mangeria\_141, Shelob\_143, Pio\_145, Shifa\_130, MikeLiesIn\_142, Bxz1\_138, LRRHood\_134, Cane17\_133, Teardrop\_140, Rabinovish\_140, LolaVinca\_141, HyRo\_132, SVoro\_139, Lukilu\_131
- Track 2 : EMSquaredA\_63, Floral\_64, Pollux\_66, Marteena\_62
- Track 3 : Matteo\_53
- Track 4 : Phistory\_56
- Track 5 : Apricot\_54
- Track 6 : DalanDe\_10
- Track 7 : Finch\_57
- Track 8 : Gudmit\_38

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

The start number called the most often in the published annotations is 13, it was called in 23 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Breeniome\_140, Burrough\_141, Bxz1\_138, Cali\_136, Cane17\_133, CharlieB\_138, ChickenPhender\_137, DeejaClivia\_128, Fludd\_142, HyRo\_132, Jessibeth14\_140, Koguma\_138, LRRHood\_134, LolaVinca\_141, Lukilu\_131, Mangeria\_141, MikeLiesIn\_142, Phox\_138, Pio\_145, Rabinovish\_140, SVoro\_139, Shaqnato\_134, Shelob\_143, Shifa\_130, Teardrop\_140,

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

- 

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

- Apricot\_54, DalanDe\_10, EMSquaredA\_63, Finch\_57, Floral\_64, Gudmit\_38, Marteena\_62, Matteo\_53, Phistory\_56, Pollux\_66,

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

Start 5:

- Found in 6 of 35 ( 17.1% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 16.7% of time when present
- Phage (with cluster) where this start called: DalanDe\_10 (DQ),

Start 8:

- Found in 5 of 35 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 5 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EMSquaredA\_63 (CY1), Floral\_64 (CY1), Marteena\_62 (CY1), Matteo\_53 (CZ2), Pollux\_66 (CY1),

Start 10:

- Found in 1 of 35 ( 2.9% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch\_57 (singleton),

Start 11:

- Found in 2 of 35 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gudmit\_38 (singleton),

Start 13:

- Found in 25 of 35 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 23 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Breeniome\_140 (C1), Burrough\_141 (C1), Bxz1\_138 (C1), Cali\_136 (C1), Cane17\_133 (C1), CharlieB\_138 (C1), ChickenPhender\_137 (C1), DeejaClivia\_128 (C1), Fludd\_142 (C1), HyRo\_132 (C1), Jessibeth14\_140 (C1), Koguma\_138 (C1), LRRHood\_134 (C1), LolaVinca\_141 (C1), Lukilu\_131 (C1), Mangeria\_141 (C1), MikeLiesIn\_142 (C1), Phox\_138 (C1), Pio\_145 (C1), Rabinovich\_140 (C1), SVoro\_139 (C1), Shaqnato\_134 (C1), Shelob\_143 (C1), Shifa\_130 (C1), Teardrop\_140 (C1),

Start 14:

- Found in 2 of 35 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot\_54 (DN3), Phistory\_56 (DN1),

**Summary by clusters:**

There are 7 clusters represented in this pham: CY1, CZ2, singleton, DN1, DN3, C1, DQ,

Info for manual annotations of cluster C1:

- Start number 13 was manually annotated 23 times for cluster C1.

Info for manual annotations of cluster CY1:

- Start number 8 was manually annotated 4 times for cluster CY1.

Info for manual annotations of cluster CZ2:

- Start number 8 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DN1:

- Start number 14 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 14 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DQ:

- Start number 5 was manually annotated 1 time for cluster DQ.

### ***Gene Information:***

Gene: Apricot\_54 Start: 35119, Stop: 35568, Start Num: 14

Candidate Starts for Apricot\_54:

(6, 35038), (Start: 14 @35119 has 2 MA's), (20, 35191), (24, 35287), (28, 35323), (37, 35452), (42, 35557),

Gene: Breeniome\_140 Start: 81159, Stop: 81575, Start Num: 13

Candidate Starts for Breeniome\_140:

(1, 80682), (Start: 13 @81159 has 23 MA's), (19, 81216), (21, 81279), (27, 81348), (31, 81393), (33, 81432),

Gene: Burrough\_141 Start: 83310, Stop: 83726, Start Num: 13

Candidate Starts for Burrough\_141:

(1, 82833), (Start: 13 @83310 has 23 MA's), (19, 83367), (21, 83430), (27, 83499), (31, 83544), (33, 83583),

Gene: Bxz1\_138 Start: 84513, Stop: 84929, Start Num: 13

Candidate Starts for Bxz1\_138:

(1, 84036), (Start: 13 @84513 has 23 MA's), (19, 84570), (21, 84633), (27, 84702), (31, 84747), (33, 84786),

Gene: Cali\_136 Start: 83312, Stop: 83728, Start Num: 13

Candidate Starts for Cali\_136:

(1, 82835), (Start: 13 @83312 has 23 MA's), (19, 83369), (21, 83432), (27, 83501), (31, 83546), (33, 83585),

Gene: Cane17\_133 Start: 84174, Stop: 84590, Start Num: 13

Candidate Starts for Cane17\_133:

(1, 83697), (Start: 13 @84174 has 23 MA's), (19, 84231), (21, 84294), (27, 84363), (31, 84408), (33, 84447),

Gene: CharlieB\_138 Start: 82195, Stop: 82611, Start Num: 13

Candidate Starts for CharlieB\_138:

(1, 81718), (Start: 13 @82195 has 23 MA's), (19, 82252), (21, 82315), (27, 82384), (31, 82429), (33, 82468),

Gene: ChickenPhender\_137 Start: 81501, Stop: 81917, Start Num: 13

Candidate Starts for ChickenPhender\_137:

(1, 81024), (Start: 13 @81501 has 23 MA's), (19, 81558), (21, 81621), (27, 81690), (31, 81735), (33, 81774),

Gene: DalanDe\_10 Start: 6059, Stop: 6628, Start Num: 5

Candidate Starts for DalanDe\_10:

(Start: 5 @6059 has 1 MA's), (7, 6083), (Start: 11 @6149 has 1 MA's), (15, 6173), (18, 6212), (25, 6356), (26, 6359), (30, 6392), (34, 6461),

Gene: DeejaClivia\_128 Start: 80469, Stop: 80885, Start Num: 13

Candidate Starts for DeejaClivia\_128:

(1, 79992), (Start: 13 @80469 has 23 MA's), (19, 80526), (21, 80589), (27, 80658), (31, 80703), (33, 80742),

Gene: EMSquaredA\_63 Start: 42816, Stop: 43277, Start Num: 8

Candidate Starts for EMSquaredA\_63:

(2, 42666), (3, 42669), (4, 42744), (Start: 5 @42747 has 1 MA's), (Start: 8 @42816 has 5 MA's), (9, 42822), (19, 42903), (22, 42999), (32, 43116),

Gene: Finch\_57 Start: 47485, Stop: 47922, Start Num: 10

Candidate Starts for Finch\_57:

(Start: 10 @47485 has 1 MA's), (12, 47497), (17, 47542), (23, 47668), (27, 47695), (29, 47713), (33, 47779), (36, 47824), (40, 47881), (41, 47884),

Gene: Floral\_64 Start: 44701, Stop: 45162, Start Num: 8

Candidate Starts for Floral\_64:

(2, 44551), (3, 44554), (4, 44629), (Start: 5 @44632 has 1 MA's), (Start: 8 @44701 has 5 MA's), (9, 44707), (19, 44788), (22, 44884), (32, 45001),

Gene: Fludd\_142 Start: 82309, Stop: 82725, Start Num: 13

Candidate Starts for Fludd\_142:

(1, 81832), (Start: 13 @82309 has 23 MA's), (19, 82366), (21, 82429), (27, 82498), (31, 82543), (33, 82582),

Gene: Gudmit\_38 Start: 27363, Stop: 27896, Start Num: 11

Candidate Starts for Gudmit\_38:

(Start: 11 @27363 has 1 MA's), (16, 27390), (35, 27666), (39, 27711),

Gene: HyRo\_132 Start: 82234, Stop: 82650, Start Num: 13

Candidate Starts for HyRo\_132:

(1, 81757), (Start: 13 @82234 has 23 MA's), (19, 82291), (21, 82354), (27, 82423), (31, 82468), (33, 82507),

Gene: Jessibeth14\_140 Start: 83080, Stop: 83496, Start Num: 13

Candidate Starts for Jessibeth14\_140:

(1, 82603), (Start: 13 @83080 has 23 MA's), (19, 83137), (21, 83200), (27, 83269), (31, 83314), (33, 83353),

Gene: Koguma\_138 Start: 80718, Stop: 81134, Start Num: 13

Candidate Starts for Koguma\_138:

(1, 80241), (Start: 13 @80718 has 23 MA's), (19, 80775), (21, 80838), (27, 80907), (31, 80952), (33, 80991),

Gene: LRRHood\_134 Start: 82526, Stop: 82942, Start Num: 13

Candidate Starts for LRRHood\_134:

(1, 82049), (Start: 13 @82526 has 23 MA's), (19, 82583), (21, 82646), (27, 82715), (31, 82760), (33, 82799),

Gene: LolaVinca\_141 Start: 83494, Stop: 83910, Start Num: 13

Candidate Starts for LolaVinca\_141:

(1, 83017), (Start: 13 @83494 has 23 MA's), (19, 83551), (21, 83614), (27, 83683), (31, 83728), (33, 83767),

Gene: Lukilu\_131 Start: 83536, Stop: 83952, Start Num: 13

Candidate Starts for Lukilu\_131:

(1, 83059), (Start: 13 @83536 has 23 MA's), (19, 83593), (21, 83656), (27, 83725), (31, 83770), (33, 83809),

Gene: Mangeria\_141 Start: 83337, Stop: 83753, Start Num: 13

Candidate Starts for Mangeria\_141:

(1, 82860), (Start: 13 @83337 has 23 MA's), (19, 83394), (21, 83457), (27, 83526), (31, 83571), (33, 83610),

Gene: Marteena\_62 Start: 42816, Stop: 43277, Start Num: 8

Candidate Starts for Marteena\_62:

(2, 42666), (3, 42669), (4, 42744), (Start: 5 @42747 has 1 MA's), (Start: 8 @42816 has 5 MA's), (9, 42822), (19, 42903), (22, 42999), (32, 43116),

Gene: Matteo\_53 Start: 35852, Stop: 36313, Start Num: 8

Candidate Starts for Matteo\_53:

(2, 35702), (4, 35780), (Start: 5 @35783 has 1 MA's), (Start: 8 @35852 has 5 MA's), (9, 35858), (19, 35939), (22, 36035), (32, 36152),

Gene: MikeLiesIn\_142 Start: 83297, Stop: 83713, Start Num: 13

Candidate Starts for MikeLiesIn\_142:

(1, 82820), (Start: 13 @83297 has 23 MA's), (19, 83354), (21, 83417), (27, 83486), (31, 83531), (33, 83570),

Gene: Phistory\_56 Start: 36066, Stop: 36515, Start Num: 14

Candidate Starts for Phistory\_56:

(6, 35985), (Start: 14 @36066 has 2 MA's), (20, 36138), (24, 36234), (28, 36270), (37, 36399), (38, 36405), (42, 36504),

Gene: Phox\_138 Start: 83560, Stop: 83976, Start Num: 13

Candidate Starts for Phox\_138:

(1, 83083), (Start: 13 @83560 has 23 MA's), (19, 83617), (21, 83680), (27, 83749), (31, 83794), (33, 83833),

Gene: Pio\_145 Start: 85169, Stop: 85585, Start Num: 13

Candidate Starts for Pio\_145:

(1, 84692), (Start: 13 @85169 has 23 MA's), (19, 85226), (21, 85289), (27, 85358), (31, 85403), (33, 85442),

Gene: Pollux\_66 Start: 44701, Stop: 45162, Start Num: 8

Candidate Starts for Pollux\_66:

(2, 44551), (3, 44554), (4, 44629), (Start: 5 @44632 has 1 MA's), (Start: 8 @44701 has 5 MA's), (9, 44707), (19, 44788), (22, 44884), (32, 45001),

Gene: Rabinovish\_140 Start: 83892, Stop: 84308, Start Num: 13

Candidate Starts for Rabinovish\_140:

(1, 83415), (Start: 13 @83892 has 23 MA's), (19, 83949), (21, 84012), (27, 84081), (31, 84126), (33, 84165),

Gene: SVoro\_139 Start: 83654, Stop: 84070, Start Num: 13

Candidate Starts for SVoro\_139:

(1, 83177), (Start: 13 @83654 has 23 MA's), (19, 83711), (21, 83774), (27, 83843), (31, 83888), (33, 83927),

Gene: Shaqnato\_134 Start: 81274, Stop: 81690, Start Num: 13

Candidate Starts for Shaqnato\_134:

(1, 80797), (Start: 13 @81274 has 23 MA's), (19, 81331), (21, 81394), (27, 81463), (31, 81508), (33, 81547),

Gene: Shelob\_143 Start: 84076, Stop: 84492, Start Num: 13

Candidate Starts for Shelob\_143:

(1, 83599), (Start: 13 @84076 has 23 MA's), (19, 84133), (21, 84196), (27, 84265), (31, 84310), (33, 84349),

Gene: Shifa\_130 Start: 81500, Stop: 81916, Start Num: 13

Candidate Starts for Shifa\_130:

(1, 81023), (Start: 13 @81500 has 23 MA's), (19, 81557), (21, 81620), (27, 81689), (31, 81734), (33, 81773),

Gene: Teardrop\_140 Start: 81782, Stop: 82198, Start Num: 13

Candidate Starts for Teardrop\_140:

(1, 81305), (Start: 13 @81782 has 23 MA's), (19, 81839), (21, 81902), (27, 81971), (31, 82016), (33, 82055),