

# Zoomed Pham 191322



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 191322 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191322 has 55 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Berrie\_32
- Track 2 : Cassia\_31, TforTroy\_32
- Track 3 : Joemato\_30, JohnDoe\_30, Simpson\_32, Tutumahutu\_30, Powerpuff\_32, YesChef\_30
- Track 4 : Lego\_30
- Track 5 : JuneStar\_31
- Track 6 : Adumb2043\_30, Turab\_30, AEgle\_30
- Track 7 : Warda\_30
- Track 8 : Jstan\_34, Niobe\_32, Elezi\_32, Eraser\_32, London\_32, Asa16\_32
- Track 9 : MissSwiss\_29
- Track 10 : Crewmate\_34, ObiToo\_33
- Track 11 : Tallboi\_31
- Track 12 : Nitro\_31
- Track 13 : DrSierra\_30
- Track 14 : Iter\_31, Ascela\_31
- Track 15 : Lizalica\_30
- Track 16 : Pixelle\_31, Amyev\_31, Tian\_31
- Track 17 : Sue2\_32
- Track 18 : Pumpkins\_31
- Track 19 : DrManhattan\_29, AGrandiflora\_31
- Track 20 : Cyan\_30
- Track 21 : Tuck\_34, Janeemi\_33, Phives\_33, Community\_32
- Track 22 : Adolin\_29
- Track 23 : Yang\_31
- Track 24 : Kaylissa\_30
- Track 25 : Mudpuppy\_30
- Track 26 : IttyBittyPiggy\_31
- Track 27 : Tbone\_30
- Track 28 : Reedo\_30
- Track 29 : Wildwest\_31
- Track 30 : VResidence\_31
- Track 31 : Liebe\_34, Maureen\_34
- Track 32 : Snek\_31, Tweety19\_31

***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 47 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle\_30, AGrandiflora\_31, Adolin\_29, Adumb2043\_30, Amyev\_31, Asa16\_32, Ascela\_31, Berrie\_32, Cassia\_31, Community\_32, Crewmate\_34, Cyan\_30, DrManhattan\_29, DrSierra\_30, Elezi\_32, Eraser\_32, Iter\_31, IttyBittyPiggy\_31, Janeemi\_33, Joemato\_30, JohnDoe\_30, Jstan\_34, JuneStar\_31, Kaylissa\_30, Lego\_30, Liebe\_34, Lizalica\_30, London\_32, Maureen\_34, MissSwiss\_29, Mudpuppy\_30, Niobe\_32, Nitro\_31, ObiToo\_33, Phives\_33, Pixelle\_31, Powerpuff\_32, Pumpkins\_31, Reedo\_30, Simpson\_32, Snek\_31, Sue2\_32, Tallboi\_31, Tbone\_30, TforTroy\_32, Tian\_31, Tuck\_34, Turab\_30, Tutumahutu\_30, Tweety19\_31, VResidence\_31, Warda\_30, Wildwest\_31, Yang\_31, YesChef\_30,

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

- 

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

- 

### Summary by start number:

Start 5:

- Found in 55 of 55 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 47 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle\_30 (AZ1), AGrandiflora\_31 (AZ1), Adolin\_29 (AZ1), Adumb2043\_30 (AZ1), Amyev\_31 (AZ1), Asa16\_32 (AZ1), Ascela\_31 (AZ1), Berrie\_32 (AZ1), Cassia\_31 (AZ1), Community\_32 (AZ1), Crewmate\_34 (AZ1), Cyan\_30 (AZ1), DrManhattan\_29 (AZ1), DrSierra\_30 (AZ1), Elezi\_32 (AZ1), Eraser\_32 (AZ1), Iter\_31 (AZ1), IttyBittyPiggy\_31 (AZ1), Janeemi\_33 (AZ1), Joemato\_30 (AZ1), JohnDoe\_30 (AZ1), Jstan\_34 (AZ1), JuneStar\_31 (AZ1), Kaylissa\_30 (AZ1), Lego\_30 (AZ1), Liebe\_34 (AZ2), Lizalica\_30 (AZ1), London\_32 (AZ1), Maureen\_34 (AZ2), MissSwiss\_29 (AZ1), Mudpuppy\_30 (AZ1), Niobe\_32 (AZ1), Nitro\_31 (AZ1), ObiToo\_33 (AZ1), Phives\_33 (AZ1), Pixelle\_31 (AZ1), Powerpuff\_32 (AZ1), Pumpkins\_31 (AZ1), Reedo\_30 (AZ1), Simpson\_32 (AZ1), Snek\_31 (AZ3), Sue2\_32 (AZ1), Tallboi\_31 (AZ1), Tbone\_30 (AZ1), TforTroy\_32 (AZ1), Tian\_31 (AZ1), Tuck\_34 (AZ1), Turab\_30 (AZ1), Tutumahutu\_30 (AZ1), Tweety19\_31 (AZ3), VResidence\_31 (AZ1), Warda\_30 (AZ1), Wildwest\_31 (AZ1), Yang\_31 (AZ1), YesChef\_30 (AZ1),

### Summary by clusters:

There are 3 clusters represented in this pham: AZ1, AZ2, AZ3,

Info for manual annotations of cluster AZ1:

- Start number 5 was manually annotated 43 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 5 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 5 was manually annotated 2 times for cluster AZ3.

**Gene Information:**

Gene: AEgle\_30 Start: 23889, Stop: 24014, Start Num: 5

Candidate Starts for AEgle\_30:

(3, 23694), (Start: 5 @23889 has 47 MA's), (13, 23964),

Gene: AGrandiflora\_31 Start: 23907, Stop: 24044, Start Num: 5

Candidate Starts for AGrandiflora\_31:

(3, 23712), (Start: 5 @23907 has 47 MA's),

Gene: Adolin\_29 Start: 22352, Stop: 22489, Start Num: 5

Candidate Starts for Adolin\_29:

(3, 22157), (Start: 5 @22352 has 47 MA's), (12, 22388), (14, 22433),

Gene: Adumb2043\_30 Start: 23888, Stop: 24013, Start Num: 5

Candidate Starts for Adumb2043\_30:

(3, 23693), (Start: 5 @23888 has 47 MA's), (13, 23963),

Gene: Amyev\_31 Start: 25812, Stop: 25949, Start Num: 5

Candidate Starts for Amyev\_31:

(3, 25617), (Start: 5 @25812 has 47 MA's), (9, 25833), (11, 25842), (12, 25848), (13, 25887), (14, 25893),

Gene: Asa16\_32 Start: 26064, Stop: 26201, Start Num: 5

Candidate Starts for Asa16\_32:

(3, 25869), (Start: 5 @26064 has 47 MA's), (7, 26076), (14, 26145),

Gene: Ascela\_31 Start: 24067, Stop: 24204, Start Num: 5

Candidate Starts for Ascela\_31:

(Start: 5 @24067 has 47 MA's), (14, 24148), (15, 24154),

Gene: Berrie\_32 Start: 25131, Stop: 25277, Start Num: 5

Candidate Starts for Berrie\_32:

(4, 25128), (Start: 5 @25131 has 47 MA's), (12, 25167), (17, 25230), (22, 25263),

Gene: Cassia\_31 Start: 24506, Stop: 24652, Start Num: 5

Candidate Starts for Cassia\_31:

(Start: 5 @24506 has 47 MA's), (12, 24542), (16, 24599), (18, 24608),

Gene: Community\_32 Start: 26254, Stop: 26400, Start Num: 5

Candidate Starts for Community\_32:

(Start: 5 @26254 has 47 MA's), (8, 26269), (10, 26281), (12, 26290), (15, 26341), (21, 26374),

Gene: Crewmate\_34 Start: 24765, Stop: 24911, Start Num: 5

Candidate Starts for Crewmate\_34:

(1, 24177), (Start: 5 @24765 has 47 MA's), (20, 24879),

Gene: Cyan\_30 Start: 23990, Stop: 24127, Start Num: 5

Candidate Starts for Cyan\_30:

(Start: 5 @23990 has 47 MA's), (12, 24026), (13, 24065),

Gene: DrManhattan\_29 Start: 22342, Stop: 22479, Start Num: 5

Candidate Starts for DrManhattan\_29:

(3, 22147), (Start: 5 @22342 has 47 MA's),

Gene: DrSierra\_30 Start: 23019, Stop: 23156, Start Num: 5

Candidate Starts for DrSierra\_30:

(3, 22824), (Start: 5 @23019 has 47 MA's), (14, 23100), (19, 23121),

Gene: Elezi\_32 Start: 26079, Stop: 26216, Start Num: 5

Candidate Starts for Elezi\_32:

(3, 25884), (Start: 5 @26079 has 47 MA's), (7, 26091), (14, 26160),

Gene: Eraser\_32 Start: 26071, Stop: 26208, Start Num: 5

Candidate Starts for Eraser\_32:

(3, 25876), (Start: 5 @26071 has 47 MA's), (7, 26083), (14, 26152),

Gene: Iter\_31 Start: 24066, Stop: 24203, Start Num: 5

Candidate Starts for Iter\_31:

(Start: 5 @24066 has 47 MA's), (14, 24147), (15, 24153),

Gene: IttyBittyPiggy\_31 Start: 24291, Stop: 24428, Start Num: 5

Candidate Starts for IttyBittyPiggy\_31:

(1, 23706), (2, 23781), (Start: 5 @24291 has 47 MA's),

Gene: Janeemi\_33 Start: 26271, Stop: 26420, Start Num: 5

Candidate Starts for Janeemi\_33:

(Start: 5 @26271 has 47 MA's), (8, 26286), (10, 26298), (12, 26307), (15, 26358), (21, 26391),

Gene: Joemato\_30 Start: 23990, Stop: 24127, Start Num: 5

Candidate Starts for Joemato\_30:

(Start: 5 @23990 has 47 MA's), (12, 24026),

Gene: JohnDoe\_30 Start: 23984, Stop: 24121, Start Num: 5

Candidate Starts for JohnDoe\_30:

(Start: 5 @23984 has 47 MA's), (12, 24020),

Gene: Jstan\_34 Start: 26065, Stop: 26202, Start Num: 5

Candidate Starts for Jstan\_34:

(3, 25870), (Start: 5 @26065 has 47 MA's), (7, 26077), (14, 26146),

Gene: JuneStar\_31 Start: 26197, Stop: 26334, Start Num: 5

Candidate Starts for JuneStar\_31:

(Start: 5 @26197 has 47 MA's), (12, 26233),

Gene: Kaylissa\_30 Start: 23956, Stop: 24093, Start Num: 5

Candidate Starts for Kaylissa\_30:

(3, 23761), (Start: 5 @23956 has 47 MA's), (12, 23992), (13, 24031),

Gene: Lego\_30 Start: 23910, Stop: 24047, Start Num: 5

Candidate Starts for Lego\_30:

(3, 23715), (Start: 5 @23910 has 47 MA's), (12, 23946),

Gene: Liebe\_34 Start: 26280, Stop: 26408, Start Num: 5

Candidate Starts for Liebe\_34:

(Start: 5 @26280 has 47 MA's),

Gene: Lizalica\_30 Start: 23981, Stop: 24118, Start Num: 5

Candidate Starts for Lizalica\_30:

(3, 23786), (Start: 5 @23981 has 47 MA's), (11, 24011), (12, 24017), (13, 24056),

Gene: London\_32 Start: 26079, Stop: 26216, Start Num: 5

Candidate Starts for London\_32:

(3, 25884), (Start: 5 @26079 has 47 MA's), (7, 26091), (14, 26160),

Gene: Maureen\_34 Start: 26280, Stop: 26408, Start Num: 5

Candidate Starts for Maureen\_34:

(Start: 5 @26280 has 47 MA's),

Gene: MissSwiss\_29 Start: 22404, Stop: 22532, Start Num: 5

Candidate Starts for MissSwiss\_29:

(3, 22209), (Start: 5 @22404 has 47 MA's), (9, 22425), (13, 22479),

Gene: Mudpuppy\_30 Start: 23961, Stop: 24107, Start Num: 5

Candidate Starts for Mudpuppy\_30:

(3, 23766), (Start: 5 @23961 has 47 MA's), (6, 23970), (12, 23997), (17, 24060), (18, 24063),

Gene: Niobe\_32 Start: 26065, Stop: 26202, Start Num: 5

Candidate Starts for Niobe\_32:

(3, 25870), (Start: 5 @26065 has 47 MA's), (7, 26077), (14, 26146),

Gene: Nitro\_31 Start: 25381, Stop: 25518, Start Num: 5

Candidate Starts for Nitro\_31:

(3, 25186), (Start: 5 @25381 has 47 MA's), (7, 25393), (12, 25417), (14, 25462),

Gene: ObiToo\_33 Start: 24505, Stop: 24651, Start Num: 5

Candidate Starts for ObiToo\_33:

(1, 23917), (Start: 5 @24505 has 47 MA's), (20, 24619),

Gene: Phives\_33 Start: 26091, Stop: 26237, Start Num: 5

Candidate Starts for Phives\_33:

(Start: 5 @26091 has 47 MA's), (8, 26106), (10, 26118), (12, 26127), (15, 26178), (21, 26211),

Gene: Pixelle\_31 Start: 25832, Stop: 25969, Start Num: 5

Candidate Starts for Pixelle\_31:

(3, 25637), (Start: 5 @25832 has 47 MA's), (9, 25853), (11, 25862), (12, 25868), (13, 25907), (14, 25913),

Gene: Powerpuff\_32 Start: 25102, Stop: 25239, Start Num: 5

Candidate Starts for Powerpuff\_32:

(Start: 5 @25102 has 47 MA's), (12, 25138),

Gene: Pumpkins\_31 Start: 24916, Stop: 25062, Start Num: 5

Candidate Starts for Pumpkins\_31:

(Start: 5 @24916 has 47 MA's), (12, 24952), (16, 25009), (18, 25018),

Gene: Reedo\_30 Start: 22565, Stop: 22690, Start Num: 5

Candidate Starts for Reedo\_30:

(3, 22370), (Start: 5 @22565 has 47 MA's), (15, 22652),

Gene: Simpson\_32 Start: 23990, Stop: 24127, Start Num: 5

Candidate Starts for Simpson\_32:

(Start: 5 @23990 has 47 MA's), (12, 24026),

Gene: Snek\_31 Start: 23138, Stop: 23254, Start Num: 5

Candidate Starts for Snek\_31:

(3, 22943), (Start: 5 @23138 has 47 MA's),

Gene: Sue2\_32 Start: 24851, Stop: 24967, Start Num: 5

Candidate Starts for Sue2\_32:

(Start: 5 @24851 has 47 MA's),

Gene: Tallboi\_31 Start: 25409, Stop: 25546, Start Num: 5

Candidate Starts for Tallboi\_31:

(3, 25214), (Start: 5 @25409 has 47 MA's), (12, 25445), (14, 25490),

Gene: Tbone\_30 Start: 23985, Stop: 24122, Start Num: 5

Candidate Starts for Tbone\_30:

(1, 23400), (3, 23790), (Start: 5 @23985 has 47 MA's), (12, 24021), (13, 24060),

Gene: TforTroy\_32 Start: 24790, Stop: 24936, Start Num: 5

Candidate Starts for TforTroy\_32:

(Start: 5 @24790 has 47 MA's), (12, 24826), (16, 24883), (18, 24892),

Gene: Tian\_31 Start: 25812, Stop: 25949, Start Num: 5

Candidate Starts for Tian\_31:

(3, 25617), (Start: 5 @25812 has 47 MA's), (9, 25833), (11, 25842), (12, 25848), (13, 25887), (14, 25893),

Gene: Tuck\_34 Start: 26635, Stop: 26781, Start Num: 5

Candidate Starts for Tuck\_34:

(Start: 5 @26635 has 47 MA's), (8, 26650), (10, 26662), (12, 26671), (15, 26722), (21, 26755),

Gene: Turab\_30 Start: 23888, Stop: 24013, Start Num: 5

Candidate Starts for Turab\_30:

(3, 23693), (Start: 5 @23888 has 47 MA's), (13, 23963),

Gene: Tutumahutu\_30 Start: 23960, Stop: 24097, Start Num: 5

Candidate Starts for Tutumahutu\_30:

(Start: 5 @23960 has 47 MA's), (12, 23996),

Gene: Tweety19\_31 Start: 23137, Stop: 23253, Start Num: 5

Candidate Starts for Tweety19\_31:

(3, 22942), (Start: 5 @23137 has 47 MA's),

Gene: VResidence\_31 Start: 24143, Stop: 24289, Start Num: 5

Candidate Starts for VResidence\_31:

(Start: 5 @24143 has 47 MA's), (18, 24245),

Gene: Warda\_30 Start: 23960, Stop: 24097, Start Num: 5  
Candidate Starts for Warda\_30:  
(3, 23765), (Start: 5 @23960 has 47 MA's), (12, 23996),

Gene: Wildwest\_31 Start: 23961, Stop: 24098, Start Num: 5  
Candidate Starts for Wildwest\_31:  
(3, 23766), (Start: 5 @23961 has 47 MA's), (14, 24042),

Gene: Yang\_31 Start: 24306, Stop: 24443, Start Num: 5  
Candidate Starts for Yang\_31:  
(Start: 5 @24306 has 47 MA's), (9, 24327), (14, 24387),

Gene: YesChef\_30 Start: 23961, Stop: 24098, Start Num: 5  
Candidate Starts for YesChef\_30:  
(Start: 5 @23961 has 47 MA's), (12, 23997),