

Pham 308844



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 308844 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308844 has 42 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Upyo_13
- Track 2 : Mahdia_13
- Track 3 : Widow_13, Puppies_13
- Track 4 : Applejacks_13
- Track 5 : Trine_13
- Track 6 : Morrissey_14
- Track 7 : Gustav_13
- Track 8 : Bunker_13
- Track 9 : Bowser_13
- Track 10 : Schnabeltier_13
- Track 11 : Doggs_13
- Track 12 : GEazy_13, NaLuna_13, HannahD_13
- Track 13 : TaronosaurusRx_13
- Track 14 : ZAYM_13
- Track 15 : Hedwig_14
- Track 16 : Opie_13, BBQValindra_13
- Track 17 : Moonflower_14, RayTheFireFly_14, Coriander_14
- Track 18 : Dmitri_14, Chipko_14, PatriciaStar_13
- Track 19 : BackstagePass_13
- Track 20 : Eyes_13
- Track 21 : Jecs_13
- Track 22 : Kiko_14
- Track 23 : MagicMan_13
- Track 24 : DirtyBoi_14
- Track 25 : Malibo_15
- Track 26 : Reyja_14, Tarzan_13, DinoNuggs_14, DonkeyMan_13
- Track 27 : Jojo24_13
- Track 28 : Heinz_13
- Track 29 : Santhid_13
- Track 30 : Hibiscus_13
- Track 31 : DearBasketball_15

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

The start number called the most often in the published annotations is 20, it was called in 7 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DearBasketball_15, DinoNuggs_14, DonkeyMan_13, Heinz_13, Hibiscus_13, Jojo24_13, Reyja_14, Santhid_13, Tarzan_13,

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:

- Applejacks_13, BBQValindra_13, BackstagePass_13, Bowser_13, Bunker_13, Chipko_14, Coriander_14, DirtyBoi_14, Dmitri_14, Doggs_13, Eyes_13, GEazy_13, Gustav_13, HannahD_13, Hedwig_14, Jecs_13, Kiko_14, MagicMan_13, Mahdia_13, Malibo_15, Moonflower_14, Morrissey_14, NaLuna_13, Opie_13, PatriciaStar_13, Puppies_13, RayTheFireFly_14, Schnabeltier_13, TaronosaurusRx_13, Trine_13, Upyo_13, Widow_13, ZAYM_13,

Summary by start number:

Start 8:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Hedwig_14 (DB),

Start 11:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Morrissey_14 (CD),

Start 13:

- Found in 12 of 42 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Doggs_13 (DB), Schnabeltier_13 (DB),

Start 17:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mahdia_13 (CD),

Start 18:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malibo_15 (DW),

Start 20:

- Found in 9 of 42 (21.4%) of genes in pham
- Manual Annotations of this start: 7 of 32

- Called 100.0% of time when present
- Phage (with cluster) where this start called: DearBasketball_15 (DY), DinoNuggs_14 (DY), DonkeyMan_13 (DY), Heinz_13 (DY), Hibiscus_13 (DY), Jojo24_13 (DY), Reyja_14 (DY), Santhid_13 (DY), Tarzan_13 (DY),

Start 21:

- Found in 7 of 42 (16.7%) of genes in pham
- Manual Annotations of this start: 5 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BBQValindra_13 (DB), BackstagePass_13 (DB), Bunker_13 (DB), GEazy_13 (DB), HannahD_13 (DB), NaLuna_13 (DB), Opie_13 (DB),

Start 22:

- Found in 11 of 42 (26.2%) of genes in pham
- Manual Annotations of this start: 6 of 32
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Bowser_13 (DB), Coriander_14 (DB), Eyes_13 (DB), Jecs_13 (DB), MagicMan_13 (DB), Moonflower_14 (DB), RayTheFireFly_14 (DB), TaronosaurusRx_13 (DB), ZAYM_13 (DB),

Start 23:

- Found in 5 of 42 (11.9%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Chipko_14 (DB), DirtyBoi_14 (DB), Dmitri_14 (DB), PatriciaStar_13 (DB),

Start 24:

- Found in 7 of 42 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 32
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Applejacks_13 (CD), Gustav_13 (CD), Puppies_13 (CD), Trine_13 (CD), Widow_13 (CD),

Start 25:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kiko_14 (DB), Upyo_13 (CD),

Summary by clusters:

There are 4 clusters represented in this pham: DW, CD, DB, DY,

Info for manual annotations of cluster CD:

- Start number 11 was manually annotated 1 time for cluster CD.
- Start number 17 was manually annotated 1 time for cluster CD.
- Start number 24 was manually annotated 4 times for cluster CD.
- Start number 25 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DB:

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

- Start number 13 was manually annotated 2 times for cluster DB.
- Start number 21 was manually annotated 5 times for cluster DB.
- Start number 22 was manually annotated 6 times for cluster DB.
- Start number 23 was manually annotated 2 times for cluster DB.
- Start number 25 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DW:

- Start number 18 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:

- Start number 20 was manually annotated 7 times for cluster DY.

Gene Information:

Gene: Applejacks_13 Start: 8462, Stop: 8764, Start Num: 24

Candidate Starts for Applejacks_13:

(2, 7895), (15, 8402), (Start: 24 @8462 has 4 MA's), (26, 8471), (31, 8585), (33, 8621), (37, 8639), (43, 8699),

Gene: BBQValindra_13 Start: 8921, Stop: 9232, Start Num: 21

Candidate Starts for BBQValindra_13:

(Start: 13 @8858 has 2 MA's), (Start: 21 @8921 has 5 MA's), (27, 8951), (29, 9011), (35, 9116), (43, 9188), (47, 9227),

Gene: BackstagePass_13 Start: 8898, Stop: 9209, Start Num: 21

Candidate Starts for BackstagePass_13:

(Start: 13 @8835 has 2 MA's), (Start: 21 @8898 has 5 MA's), (27, 8928), (29, 8988), (35, 9093), (43, 9165), (47, 9204),

Gene: Bowser_13 Start: 8923, Stop: 9234, Start Num: 22

Candidate Starts for Bowser_13:

(Start: 22 @8923 has 6 MA's), (29, 9013), (39, 9166), (43, 9190), (47, 9229),

Gene: Bunker_13 Start: 8921, Stop: 9232, Start Num: 21

Candidate Starts for Bunker_13:

(Start: 13 @8858 has 2 MA's), (Start: 21 @8921 has 5 MA's), (27, 8951), (29, 9011), (39, 9164), (43, 9188), (47, 9227),

Gene: Chipko_14 Start: 9317, Stop: 9637, Start Num: 23

Candidate Starts for Chipko_14:

(10, 9248), (Start: 23 @9317 has 2 MA's), (39, 9548), (43, 9572),

Gene: Coriander_14 Start: 9316, Stop: 9636, Start Num: 22

Candidate Starts for Coriander_14:

(Start: 13 @9253 has 2 MA's), (Start: 22 @9316 has 6 MA's), (39, 9547), (43, 9571),

Gene: DearBasketball_15 Start: 8820, Stop: 9146, Start Num: 20

Candidate Starts for DearBasketball_15:

(Start: 20 @8820 has 7 MA's),

Gene: DinoNuggs_14 Start: 8756, Stop: 9082, Start Num: 20

Candidate Starts for DinoNuggs_14:
(Start: 20 @8756 has 7 MA's),

Gene: DirtyBoi_14 Start: 9265, Stop: 9579, Start Num: 23

Candidate Starts for DirtyBoi_14:
(1, 8488), (Start: 8 @9184 has 1 MA's), (Start: 13 @9208 has 2 MA's), (Start: 23 @9265 has 2 MA's),
(27, 9295), (38, 9481), (43, 9532),

Gene: Dmitri_14 Start: 9298, Stop: 9618, Start Num: 23

Candidate Starts for Dmitri_14:
(10, 9229), (Start: 23 @9298 has 2 MA's), (39, 9529), (43, 9553),

Gene: Doggs_13 Start: 8950, Stop: 9333, Start Num: 13

Candidate Starts for Doggs_13:
(Start: 13 @8950 has 2 MA's), (Start: 22 @9013 has 6 MA's), (39, 9244), (43, 9268),

Gene: DonkeyMan_13 Start: 8605, Stop: 8931, Start Num: 20

Candidate Starts for DonkeyMan_13:
(Start: 20 @8605 has 7 MA's),

Gene: Eyes_13 Start: 8931, Stop: 9242, Start Num: 22

Candidate Starts for Eyes_13:
(Start: 22 @8931 has 6 MA's), (29, 9021), (34, 9108), (43, 9198), (47, 9237),

Gene: GEazy_13 Start: 8937, Stop: 9251, Start Num: 21

Candidate Starts for GEazy_13:
(10, 8862), (Start: 21 @8937 has 5 MA's), (27, 8970), (29, 9030), (35, 9135), (39, 9183), (43, 9207),
(47, 9246),

Gene: Gustav_13 Start: 8549, Stop: 8848, Start Num: 24

Candidate Starts for Gustav_13:
(Start: 24 @8549 has 4 MA's), (26, 8558), (38, 8735), (40, 8771), (43, 8783),

Gene: HannahD_13 Start: 8937, Stop: 9251, Start Num: 21

Candidate Starts for HannahD_13:
(10, 8862), (Start: 21 @8937 has 5 MA's), (27, 8970), (29, 9030), (35, 9135), (39, 9183), (43, 9207),
(47, 9246),

Gene: Hedwig_14 Start: 9184, Stop: 9579, Start Num: 8

Candidate Starts for Hedwig_14:
(1, 8488), (Start: 8 @9184 has 1 MA's), (Start: 13 @9208 has 2 MA's), (Start: 23 @9265 has 2 MA's),
(27, 9295), (29, 9355), (38, 9481), (43, 9532),

Gene: Heinz_13 Start: 8636, Stop: 8962, Start Num: 20

Candidate Starts for Heinz_13:
(6, 8537), (7, 8546), (Start: 20 @8636 has 7 MA's), (43, 8894),

Gene: Hibiscus_13 Start: 8620, Stop: 8946, Start Num: 20

Candidate Starts for Hibiscus_13:
(Start: 20 @8620 has 7 MA's),

Gene: Jecs_13 Start: 9255, Stop: 9566, Start Num: 22

Candidate Starts for Jecs_13:

(Start: 22 @9255 has 6 MA's), (29, 9345), (35, 9450), (43, 9522), (47, 9561),

Gene: Jojo24_13 Start: 8614, Stop: 8940, Start Num: 20

Candidate Starts for Jojo24_13:

(6, 8512), (7, 8521), (Start: 20 @8614 has 7 MA's),

Gene: Kiko_14 Start: 9124, Stop: 9432, Start Num: 25

Candidate Starts for Kiko_14:

(5, 8995), (Start: 25 @9124 has 2 MA's), (27, 9148), (33, 9286), (41, 9376), (43, 9385),

Gene: MagicMan_13 Start: 9261, Stop: 9572, Start Num: 22

Candidate Starts for MagicMan_13:

(Start: 13 @9195 has 2 MA's), (Start: 22 @9261 has 6 MA's), (29, 9351), (35, 9456), (39, 9504), (43, 9528), (47, 9567),

Gene: Mahdia_13 Start: 8477, Stop: 8827, Start Num: 17

Candidate Starts for Mahdia_13:

(14, 8465), (Start: 17 @8477 has 1 MA's), (Start: 24 @8528 has 4 MA's), (26, 8537), (31, 8651), (40, 8750), (43, 8762), (46, 8798),

Gene: Malibo_15 Start: 9311, Stop: 9643, Start Num: 18

Candidate Starts for Malibo_15:

(Start: 18 @9311 has 1 MA's), (28, 9374), (30, 9428), (32, 9479), (46, 9608),

Gene: Moonflower_14 Start: 9321, Stop: 9641, Start Num: 22

Candidate Starts for Moonflower_14:

(Start: 13 @9258 has 2 MA's), (Start: 22 @9321 has 6 MA's), (39, 9552), (43, 9576),

Gene: Morrissey_14 Start: 8806, Stop: 9189, Start Num: 11

Candidate Starts for Morrissey_14:

(4, 8740), (Start: 11 @8806 has 1 MA's), (16, 8830), (Start: 24 @8887 has 4 MA's), (26, 8896), (30, 8980), (31, 9010), (45, 9148),

Gene: NaLuna_13 Start: 8937, Stop: 9251, Start Num: 21

Candidate Starts for NaLuna_13:

(10, 8862), (Start: 21 @8937 has 5 MA's), (27, 8970), (29, 9030), (35, 9135), (39, 9183), (43, 9207), (47, 9246),

Gene: Opie_13 Start: 9275, Stop: 9586, Start Num: 21

Candidate Starts for Opie_13:

(Start: 13 @9212 has 2 MA's), (Start: 21 @9275 has 5 MA's), (27, 9305), (29, 9365), (35, 9470), (43, 9542), (47, 9581),

Gene: PatriciaStar_13 Start: 8934, Stop: 9254, Start Num: 23

Candidate Starts for PatriciaStar_13:

(10, 8865), (Start: 23 @8934 has 2 MA's), (39, 9165), (43, 9189),

Gene: Puppies_13 Start: 8430, Stop: 8729, Start Num: 24

Candidate Starts for Puppies_13:

(Start: 24 @8430 has 4 MA's), (45, 8691),

Gene: RayTheFireFly_14 Start: 9322, Stop: 9642, Start Num: 22

Candidate Starts for RayTheFireFly_14:

(Start: 13 @9259 has 2 MA's), (Start: 22 @9322 has 6 MA's), (39, 9553), (43, 9577),

Gene: Reyja_14 Start: 8756, Stop: 9082, Start Num: 20

Candidate Starts for Reyja_14:

(Start: 20 @8756 has 7 MA's),

Gene: Santhid_13 Start: 8622, Stop: 8948, Start Num: 20

Candidate Starts for Santhid_13:

(9, 8535), (12, 8556), (Start: 20 @8622 has 7 MA's),

Gene: Schnabeltier_13 Start: 9196, Stop: 9573, Start Num: 13

Candidate Starts for Schnabeltier_13:

(Start: 13 @9196 has 2 MA's), (Start: 22 @9262 has 6 MA's), (29, 9352), (35, 9457), (39, 9505), (43, 9529), (47, 9568),

Gene: TaronosaurusRx_13 Start: 9274, Stop: 9585, Start Num: 22

Candidate Starts for TaronosaurusRx_13:

(3, 9076), (Start: 22 @9274 has 6 MA's), (27, 9304), (29, 9364), (39, 9517), (43, 9541), (47, 9580),

Gene: Tarzan_13 Start: 8610, Stop: 8936, Start Num: 20

Candidate Starts for Tarzan_13:

(Start: 20 @8610 has 7 MA's),

Gene: Trine_13 Start: 8442, Stop: 8735, Start Num: 24

Candidate Starts for Trine_13:

(Start: 24 @8442 has 4 MA's), (30, 8532), (31, 8562), (36, 8610), (45, 8700),

Gene: Upyo_13 Start: 8546, Stop: 8845, Start Num: 25

Candidate Starts for Upyo_13:

(Start: 11 @8462 has 1 MA's), (19, 8528), (Start: 25 @8546 has 2 MA's), (26, 8552), (31, 8666), (42, 8774), (43, 8780), (44, 8783), (45, 8804),

Gene: Widow_13 Start: 8421, Stop: 8720, Start Num: 24

Candidate Starts for Widow_13:

(Start: 24 @8421 has 4 MA's), (45, 8682),

Gene: ZAYM_13 Start: 9266, Stop: 9577, Start Num: 22

Candidate Starts for ZAYM_13:

(10, 9197), (Start: 22 @9266 has 6 MA's), (27, 9296), (29, 9356), (39, 9509), (43, 9533), (47, 9572),