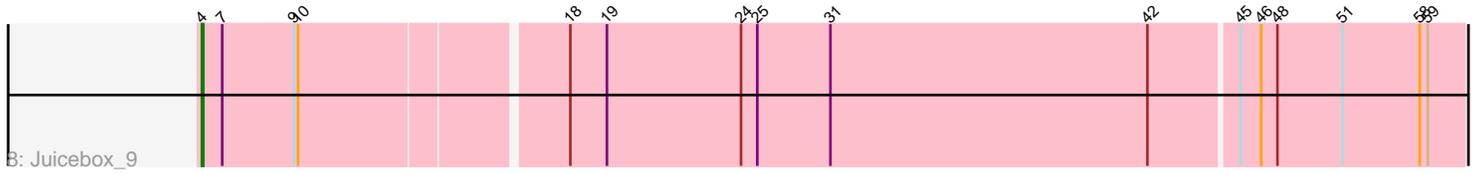
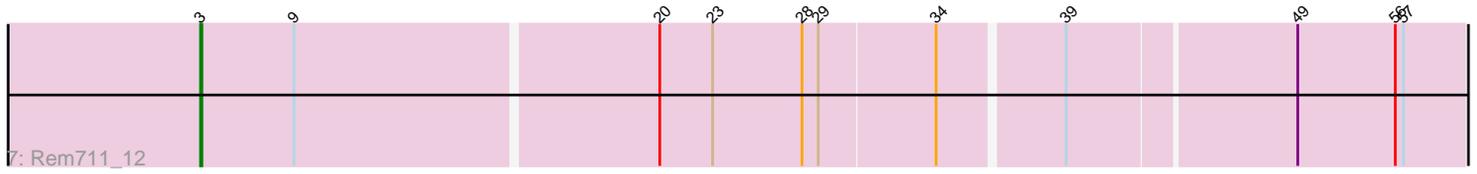
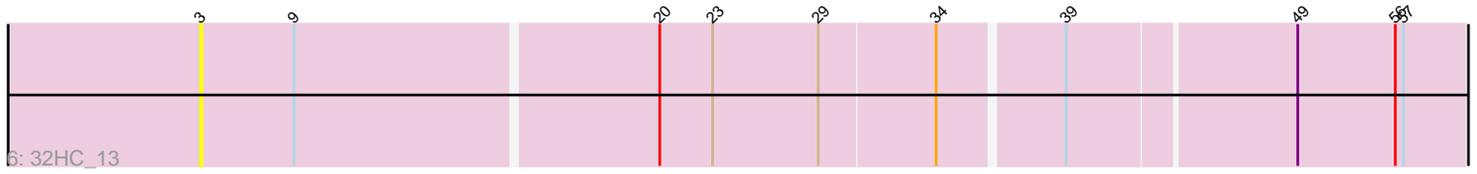
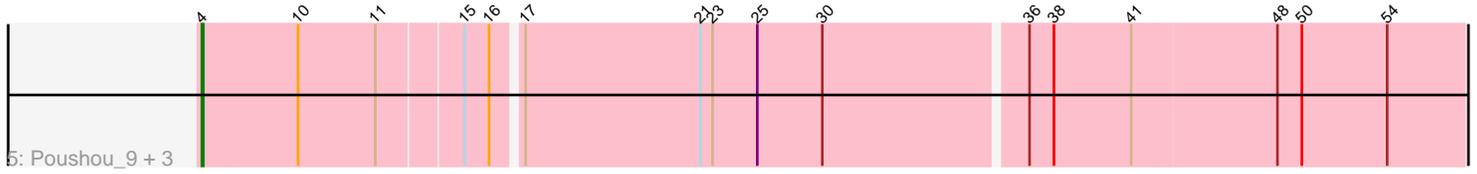
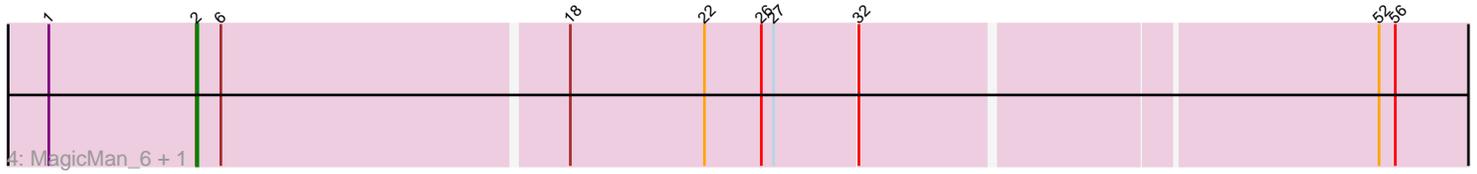
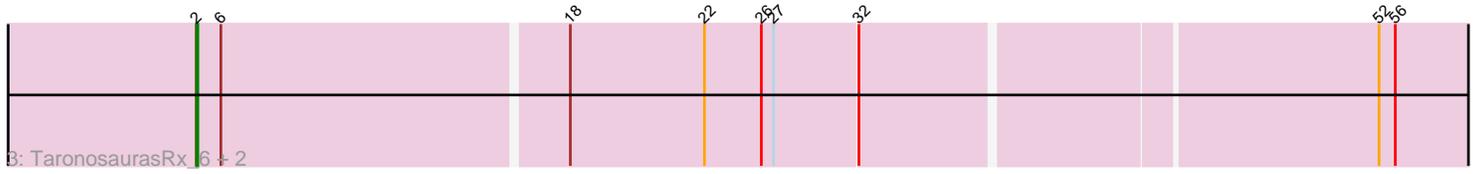
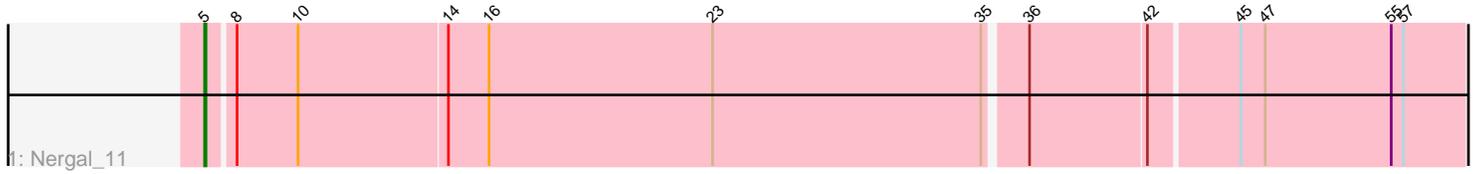


Pham 289861



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 289861 Report

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

Pham number 289861 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Nergal_11
- Track 2 : MalagasyRose_13
- Track 3 : TaronosaurusRx_6, ZAYM_6, Opie_6
- Track 4 : MagicMan_6, Schnabeltier_6
- Track 5 : Poushou_9, Colleen_9, Arianna_9, TouchMeNot_9
- Track 6 : 32HC_13
- Track 7 : Rem711_12
- Track 8 : Juicebox_9
- Track 9 : GMA4_7

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arianna_9, Colleen_9, Juicebox_9, Poushou_9, TouchMeNot_9,

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

-

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

- 32HC_13, GMA4_7, MagicMan_6, MalagasyRose_13, Nergal_11, Opie_6, Rem711_12, Schnabeltier_6, TaronosaurusRx_6, ZAYM_6,

Summary by start number:

Start 2:

- Found in 6 of 15 (40.0%) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_7 (singleton), MagicMan_6 (DB), Opie_6 (DB), Schnabeltier_6 (DB), TaronosaurusRx_6 (DB), ZAYM_6 (DB),

Start 3:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_13 (Z), Rem711_12 (Z),

Start 4:

- Found in 5 of 15 (33.3%) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arianna_9 (EO), Colleen_9 (EO), Juicebox_9 (singleton), Poushou_9 (EO), TouchMeNot_9 (EO),

Start 5:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_13 (AG), Nergal_11 (AG),

Summary by clusters:

There are 5 clusters represented in this pham: EO, Z, DB, singleton, AG,

Info for manual annotations of cluster AG:

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

Info for manual annotations of cluster DB:

- Start number 2 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster EO:

- Start number 4 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster Z:

- Start number 3 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_13 Start: 8256, Stop: 9161, Start Num: 3

Candidate Starts for 32HC_13:

(Start: 3 @8256 has 1 MA's), (9, 8325), (20, 8586), (23, 8625), (29, 8703), (34, 8787), (39, 8874), (49, 9036), (56, 9108), (57, 9114),

Gene: Arianna_9 Start: 7329, Stop: 8234, Start Num: 4

Candidate Starts for Arianna_9:

(Start: 4 @7329 has 5 MA's), (10, 7398), (11, 7455), (15, 7515), (16, 7533), (17, 7551), (21, 7680), (23, 7689), (25, 7722), (30, 7770), (36, 7914), (38, 7932), (41, 7989), (48, 8094), (50, 8112), (54, 8175),

Gene: Colleen_9 Start: 7329, Stop: 8234, Start Num: 4

Candidate Starts for Colleen_9:

(Start: 4 @7329 has 5 MA's), (10, 7398), (11, 7455), (15, 7515), (16, 7533), (17, 7551), (21, 7680), (23, 7689), (25, 7722), (30, 7770), (36, 7914), (38, 7932), (41, 7989), (48, 8094), (50, 8112), (54, 8175),

Gene: GMA4_7 Start: 6326, Stop: 7234, Start Num: 2

Candidate Starts for GMA4_7:

(Start: 2 @6326 has 4 MA's), (10, 6395), (30, 6776), (33, 6806), (37, 6926), (40, 6980), (43, 7028), (44, 7046), (57, 7187),

Gene: Juicebox_9 Start: 6962, Stop: 7873, Start Num: 4

Candidate Starts for Juicebox_9:

(Start: 4 @6962 has 5 MA's), (7, 6977), (9, 7028), (10, 7031), (18, 7217), (19, 7244), (24, 7343), (25, 7355), (31, 7409), (42, 7643), (45, 7706), (46, 7721), (48, 7733), (51, 7781), (58, 7838), (59, 7844),

Gene: MagicMan_6 Start: 5427, Stop: 6338, Start Num: 2

Candidate Starts for MagicMan_6:

(1, 5319), (Start: 2 @5427 has 4 MA's), (6, 5445), (18, 5694), (22, 5793), (26, 5835), (27, 5844), (32, 5904), (52, 6270), (56, 6282),

Gene: MalagasyRose_13 Start: 8001, Stop: 8906, Start Num: 5

Candidate Starts for MalagasyRose_13:

(Start: 5 @8001 has 2 MA's), (8, 8019), (10, 8064), (12, 8148), (13, 8157), (14, 8172), (17, 8229), (18, 8262), (35, 8565), (37, 8598), (38, 8610), (42, 8676), (45, 8739), (47, 8757), (53, 8844), (57, 8859),

Gene: Nergal_11 Start: 8449, Stop: 9354, Start Num: 5

Candidate Starts for Nergal_11:

(Start: 5 @8449 has 2 MA's), (8, 8467), (10, 8512), (14, 8620), (16, 8650), (23, 8815), (35, 9013), (36, 9040), (42, 9124), (45, 9187), (47, 9205), (55, 9298), (57, 9307),

Gene: Opie_6 Start: 5436, Stop: 6347, Start Num: 2

Candidate Starts for Opie_6:

(Start: 2 @5436 has 4 MA's), (6, 5454), (18, 5703), (22, 5802), (26, 5844), (27, 5853), (32, 5913), (52, 6279), (56, 6291),

Gene: Poushou_9 Start: 7329, Stop: 8234, Start Num: 4

Candidate Starts for Poushou_9:

(Start: 4 @7329 has 5 MA's), (10, 7398), (11, 7455), (15, 7515), (16, 7533), (17, 7551), (21, 7680), (23, 7689), (25, 7722), (30, 7770), (36, 7914), (38, 7932), (41, 7989), (48, 8094), (50, 8112), (54, 8175),

Gene: Rem711_12 Start: 8310, Stop: 9215, Start Num: 3

Candidate Starts for Rem711_12:

(Start: 3 @8310 has 1 MA's), (9, 8379), (20, 8640), (23, 8679), (28, 8745), (29, 8757), (34, 8841), (39, 8928), (49, 9090), (56, 9162), (57, 9168),

Gene: Schnabeltier_6 Start: 5428, Stop: 6339, Start Num: 2

Candidate Starts for Schnabeltier_6:

(1, 5320), (Start: 2 @5428 has 4 MA's), (6, 5446), (18, 5695), (22, 5794), (26, 5836), (27, 5845), (32, 5905), (52, 6271), (56, 6283),

Gene: TaronosaurusRx_6 Start: 5435, Stop: 6346, Start Num: 2

Candidate Starts for TaronosaurusRx_6:

(Start: 2 @5435 has 4 MA's), (6, 5453), (18, 5702), (22, 5801), (26, 5843), (27, 5852), (32, 5912), (52, 6278), (56, 6290),

Gene: TouchMeNot_9 Start: 7329, Stop: 8234, Start Num: 4

Candidate Starts for TouchMeNot_9:

(Start: 4 @7329 has 5 MA's), (10, 7398), (11, 7455), (15, 7515), (16, 7533), (17, 7551), (21, 7680), (23, 7689), (25, 7722), (30, 7770), (36, 7914), (38, 7932), (41, 7989), (48, 8094), (50, 8112), (54, 8175),

Gene: ZAYM_6 Start: 5428, Stop: 6339, Start Num: 2

Candidate Starts for ZAYM_6:

(Start: 2 @5428 has 4 MA's), (6, 5446), (18, 5695), (22, 5794), (26, 5836), (27, 5845), (32, 5905), (52, 6271), (56, 6283),