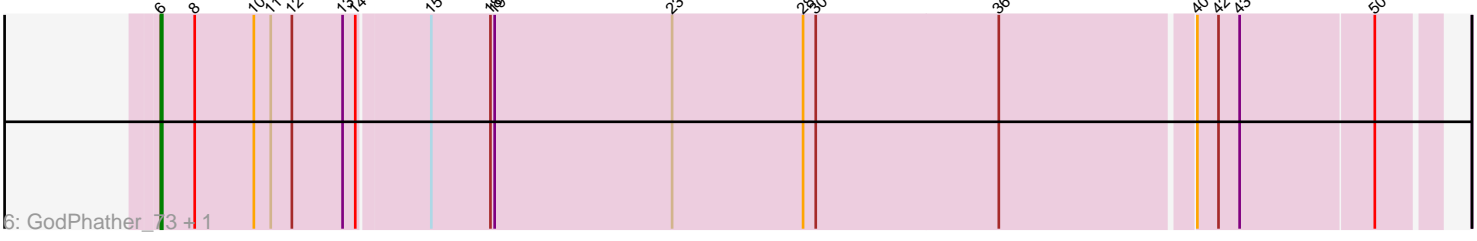
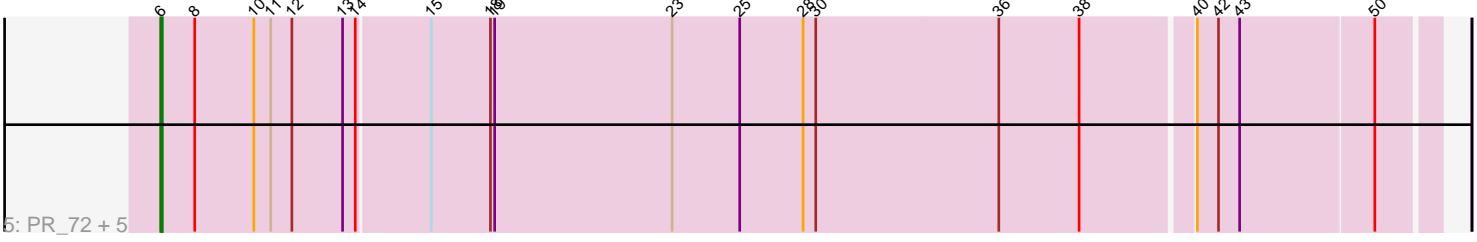
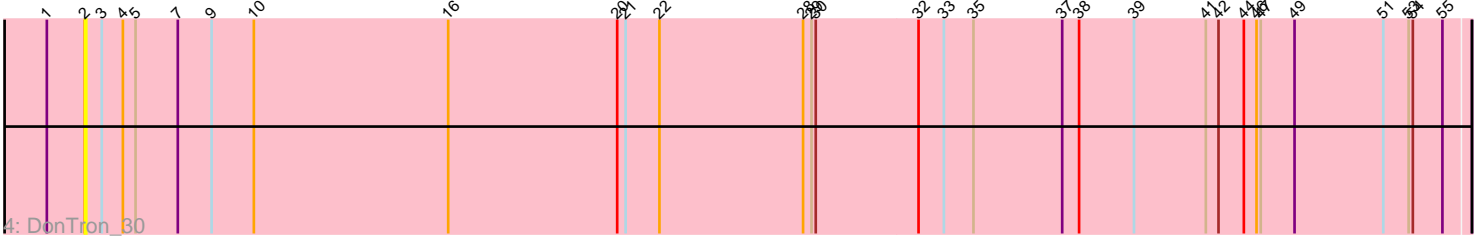
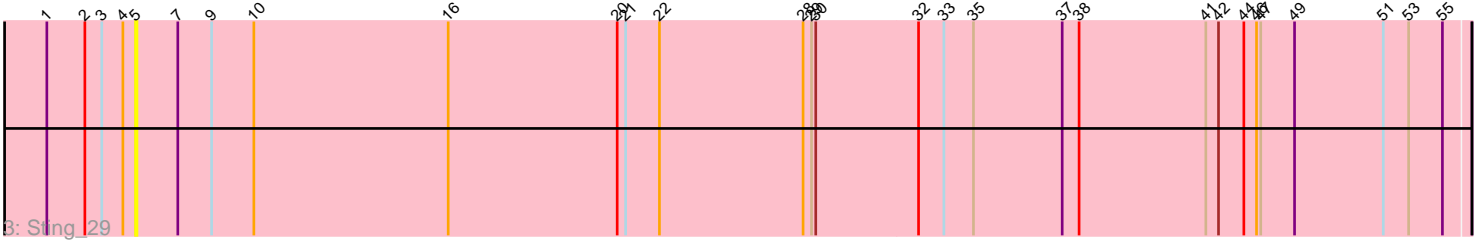
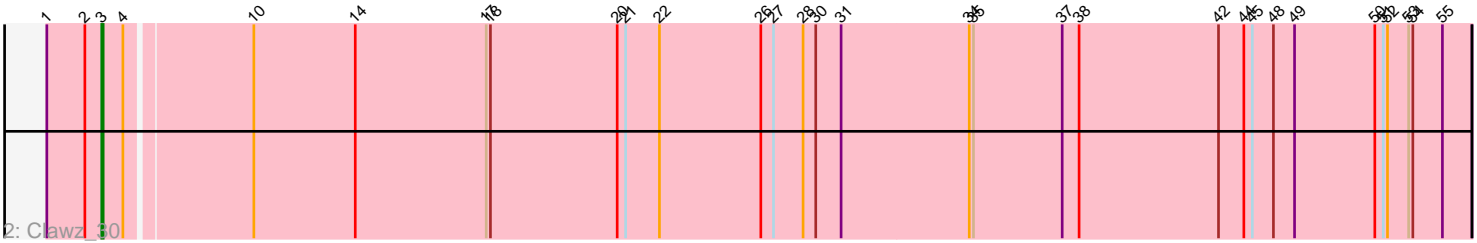
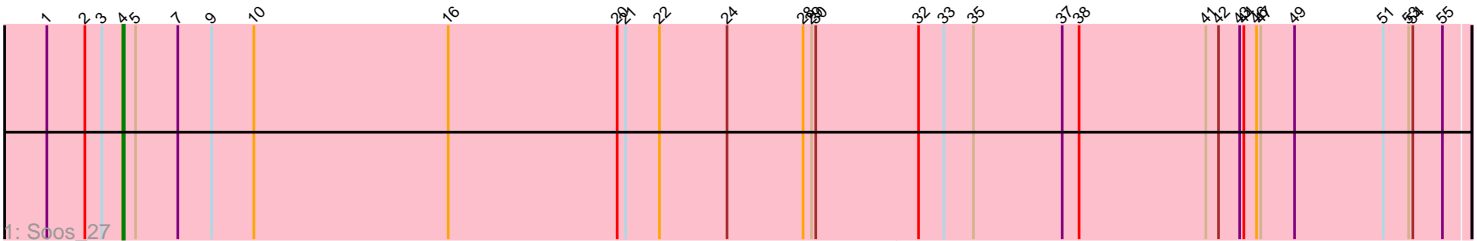


Pham 87410



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 87410 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87410 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Soos_27
- Track 2 : Clawz_30
- Track 3 : Sting_29
- Track 4 : DonTron_30
- Track 5 : PR_72, D12_71, Taptic_74, Cepens_73, Argie_75, Megabear_71
- Track 6 : GodPhather_73, Jeon_69

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Argie_75, Cepens_73, D12_71, GodPhather_73, Jeon_69, Megabear_71, PR_72, Taptic_74,

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

-

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

- Clawz_30, DonTron_30, Soos_27, Sting_29,

Summary by start number:

Start 2:

- Found in 4 of 12 (33.3%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DonTron_30 (CP),

Start 3:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 25.0% of time when present

- Phage (with cluster) where this start called: Clawz_30 (CP),

Start 4:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Soos_27 (CP),

Start 5:

- Found in 3 of 12 (25.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Sting_29 (CP),

Start 6:

- Found in 8 of 12 (66.7%) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_75 (W), Cepens_73 (W), D12_71 (W), GodPhather_73 (W), Jeon_69 (W), Megabear_71 (W), PR_72 (W), Taptic_74 (W),

Summary by clusters:

There are 2 clusters represented in this pham: CP, W,

Info for manual annotations of cluster CP:

- Start number 3 was manually annotated 1 time for cluster CP.
- Start number 4 was manually annotated 1 time for cluster CP.

Info for manual annotations of cluster W:

- Start number 6 was manually annotated 8 times for cluster W.

Gene Information:

Gene: Argie_75 Start: 53217, Stop: 54101, Start Num: 6

Candidate Starts for Argie_75:

(Start: 6 @53217 has 8 MA's), (8, 53241), (10, 53283), (11, 53295), (12, 53310), (13, 53346), (14, 53355), (15, 53403), (18, 53445), (19, 53448), (23, 53574), (25, 53622), (28, 53667), (30, 53676), (36, 53805), (38, 53862), (40, 53937), (42, 53952), (43, 53967), (50, 54060),

Gene: Cepens_73 Start: 52026, Stop: 52910, Start Num: 6

Candidate Starts for Cepens_73:

(Start: 6 @52026 has 8 MA's), (8, 52050), (10, 52092), (11, 52104), (12, 52119), (13, 52155), (14, 52164), (15, 52212), (18, 52254), (19, 52257), (23, 52383), (25, 52431), (28, 52476), (30, 52485), (36, 52614), (38, 52671), (40, 52746), (42, 52761), (43, 52776), (50, 52869),

Gene: Clawz_30 Start: 14531, Stop: 15493, Start Num: 3

Candidate Starts for Clawz_30:

(1, 14492), (2, 14519), (Start: 3 @14531 has 1 MA's), (Start: 4 @14546 has 1 MA's), (10, 14630), (14, 14702), (17, 14795), (18, 14798), (20, 14888), (21, 14894), (22, 14918), (26, 14990), (27, 14999), (28,

15020), (30, 15029), (31, 15047), (34, 15137), (35, 15140), (37, 15203), (38, 15215), (42, 15314), (44, 15332), (45, 15338), (48, 15353), (49, 15368), (50, 15425), (51, 15431), (52, 15434), (53, 15449), (54, 15452), (55, 15473),

Gene: D12_71 Start: 52661, Stop: 53545, Start Num: 6

Candidate Starts for D12_71:

(Start: 6 @52661 has 8 MA's), (8, 52685), (10, 52727), (11, 52739), (12, 52754), (13, 52790), (14, 52799), (15, 52847), (18, 52889), (19, 52892), (23, 53018), (25, 53066), (28, 53111), (30, 53120), (36, 53249), (38, 53306), (40, 53381), (42, 53396), (43, 53411), (50, 53504),

Gene: DonTron_30 Start: 14670, Stop: 15650, Start Num: 2

Candidate Starts for DonTron_30:

(1, 14643), (2, 14670), (Start: 3 @14682 has 1 MA's), (Start: 4 @14697 has 1 MA's), (5, 14706), (7, 14736), (9, 14760), (10, 14790), (16, 14928), (20, 15048), (21, 15054), (22, 15078), (28, 15180), (29, 15186), (30, 15189), (32, 15261), (33, 15279), (35, 15300), (37, 15363), (38, 15375), (39, 15414), (41, 15465), (42, 15474), (44, 15492), (46, 15501), (47, 15504), (49, 15528), (51, 15591), (53, 15609), (54, 15612), (55, 15633),

Gene: GodPhather_73 Start: 52671, Stop: 53555, Start Num: 6

Candidate Starts for GodPhather_73:

(Start: 6 @52671 has 8 MA's), (8, 52695), (10, 52737), (11, 52749), (12, 52764), (13, 52800), (14, 52809), (15, 52857), (18, 52899), (19, 52902), (23, 53028), (28, 53121), (30, 53130), (36, 53259), (40, 53391), (42, 53406), (43, 53421), (50, 53514),

Gene: Jeon_69 Start: 52164, Stop: 53048, Start Num: 6

Candidate Starts for Jeon_69:

(Start: 6 @52164 has 8 MA's), (8, 52188), (10, 52230), (11, 52242), (12, 52257), (13, 52293), (14, 52302), (15, 52350), (18, 52392), (19, 52395), (23, 52521), (28, 52614), (30, 52623), (36, 52752), (40, 52884), (42, 52899), (43, 52914), (50, 53007),

Gene: Megabear_71 Start: 51947, Stop: 52831, Start Num: 6

Candidate Starts for Megabear_71:

(Start: 6 @51947 has 8 MA's), (8, 51971), (10, 52013), (11, 52025), (12, 52040), (13, 52076), (14, 52085), (15, 52133), (18, 52175), (19, 52178), (23, 52304), (25, 52352), (28, 52397), (30, 52406), (36, 52535), (38, 52592), (40, 52667), (42, 52682), (43, 52697), (50, 52790),

Gene: PR_72 Start: 52638, Stop: 53522, Start Num: 6

Candidate Starts for PR_72:

(Start: 6 @52638 has 8 MA's), (8, 52662), (10, 52704), (11, 52716), (12, 52731), (13, 52767), (14, 52776), (15, 52824), (18, 52866), (19, 52869), (23, 52995), (25, 53043), (28, 53088), (30, 53097), (36, 53226), (38, 53283), (40, 53358), (42, 53373), (43, 53388), (50, 53481),

Gene: Soos_27 Start: 13969, Stop: 14922, Start Num: 4

Candidate Starts for Soos_27:

(1, 13915), (2, 13942), (Start: 3 @13954 has 1 MA's), (Start: 4 @13969 has 1 MA's), (5, 13978), (7, 14008), (9, 14032), (10, 14062), (16, 14200), (20, 14320), (21, 14326), (22, 14350), (24, 14398), (28, 14452), (29, 14458), (30, 14461), (32, 14533), (33, 14551), (35, 14572), (37, 14635), (38, 14647), (41, 14737), (42, 14746), (43, 14761), (44, 14764), (46, 14773), (47, 14776), (49, 14800), (51, 14863), (53, 14881), (54, 14884), (55, 14905),

Gene: Sting_29 Start: 14312, Stop: 15256, Start Num: 5

Candidate Starts for Sting_29:

(1, 14249), (2, 14276), (Start: 3 @14288 has 1 MA's), (Start: 4 @14303 has 1 MA's), (5, 14312), (7, 14342), (9, 14366), (10, 14396), (16, 14534), (20, 14654), (21, 14660), (22, 14684), (28, 14786), (29, 14792), (30, 14795), (32, 14867), (33, 14885), (35, 14906), (37, 14969), (38, 14981), (41, 15071), (42, 15080), (44, 15098), (46, 15107), (47, 15110), (49, 15134), (51, 15197), (53, 15215), (55, 15239),

Gene: Taptic_74 Start: 52643, Stop: 53527, Start Num: 6

Candidate Starts for Taptic_74:

(Start: 6 @52643 has 8 MA's), (8, 52667), (10, 52709), (11, 52721), (12, 52736), (13, 52772), (14, 52781), (15, 52829), (18, 52871), (19, 52874), (23, 53000), (25, 53048), (28, 53093), (30, 53102), (36, 53231), (38, 53288), (40, 53363), (42, 53378), (43, 53393), (50, 53486),