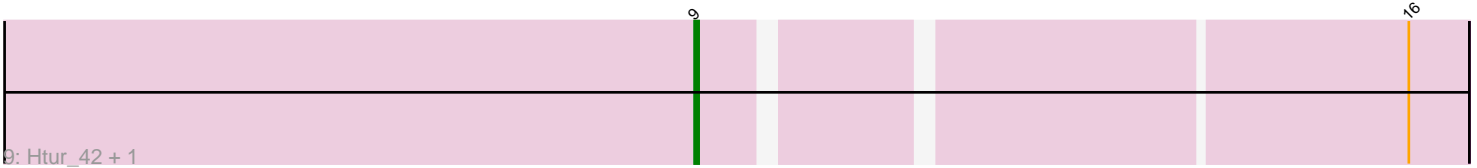
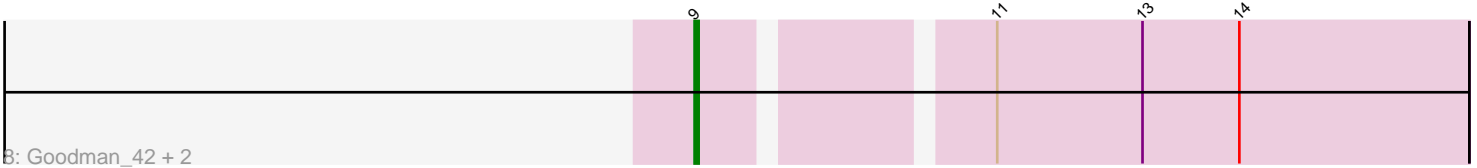
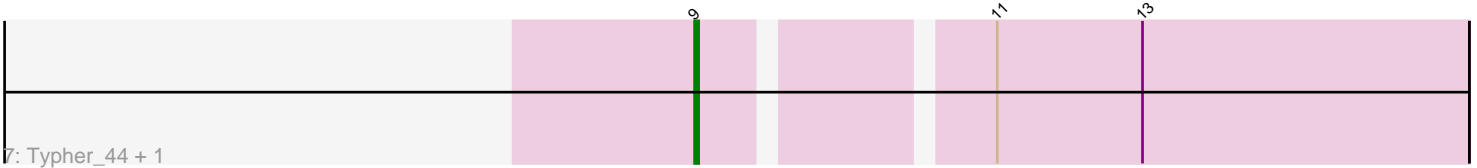
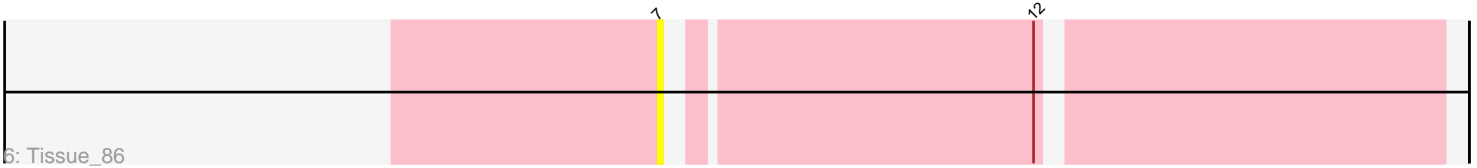
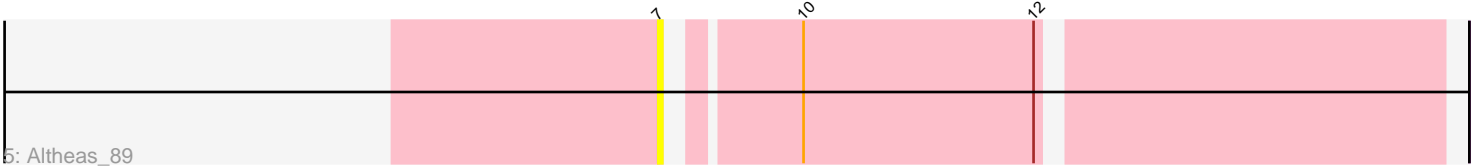
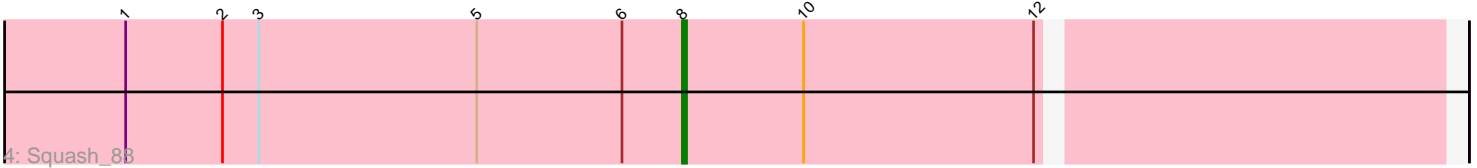
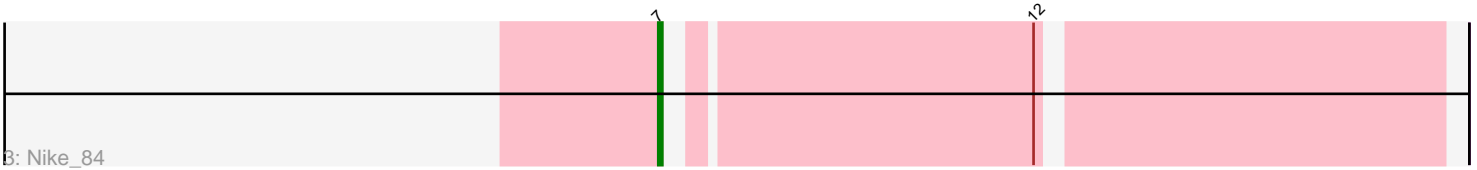
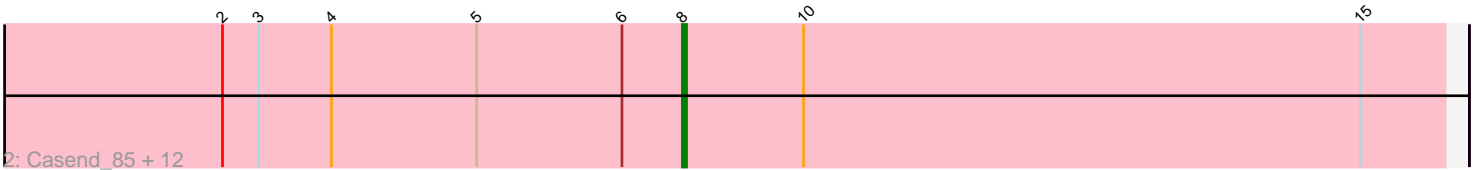
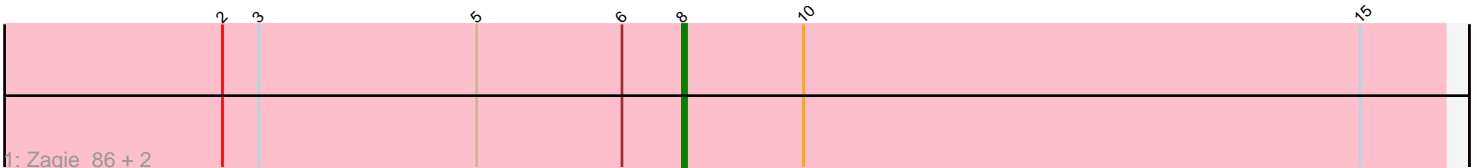


Pham 4037



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 4037 Report

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

Pham number 4037 has 27 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Zagie_86, Rowlf_84, Judebell_88
- Track 2 : Casend_85, Lonelysoil_82, Sillytadpoles_87, Teehee_85, DonaldDuck_86, Phabia_84, Quammi_83, Llemily_86, Jehoshaphat_86, Wheelie_84, Zhafia_90, Rudy_82, Wayne3_86
- Track 3 : Nike_84
- Track 4 : Squash_88
- Track 5 : Altheas_89
- Track 6 : Tissue_86
- Track 7 : Typher_44, TurboVicky_42
- Track 8 : Goodman_42, Johann_42, SBlackberry_41
- Track 9 : Htur_42, Rasovi_42

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Casend_85, DonaldDuck_86, Jehoshaphat_86, Judebell_88, Llemily_86, Lonelysoil_82, Phabia_84, Quammi_83, Rowlf_84, Rudy_82, Sillytadpoles_87, Squash_88, Teehee_85, Wayne3_86, Wheelie_84, Zagie_86, Zhafia_90,

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

-

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

- Altheas_89, Goodman_42, Htur_42, Johann_42, Nike_84, Rasovi_42, SBlackberry_41, Tissue_86, TurboVicky_42, Typher_44,

Summary by start number:

Start 7:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 18

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_89 (EG), Nike_84 (EG), Tissue_86 (EG),

Start 8:

- Found in 17 of 27 (63.0%) of genes in pham
- Manual Annotations of this start: 11 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Casend_85 (EG), DonaldDuck_86 (EG), Jehoshaphat_86 (EG), Judebell_88 (EG), Llemily_86 (EG), Lonelysoil_82 (EG), Phabia_84 (EG), Quammi_83 (EG), Rowlf_84 (EG), Rudy_82 (EG), Sillytadpoles_87 (EG), Squash_88 (EG), Teehee_85 (EG), Wayne3_86 (EG), Wheelie_84 (EG), Zagie_86 (EG), Zhafia_90 (EG),

Start 9:

- Found in 7 of 27 (25.9%) of genes in pham
- Manual Annotations of this start: 6 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Goodman_42 (EJ), Htur_42 (EJ), Johann_42 (EJ), Rasovi_42 (EJ), SBlackberry_41 (EJ), TurboVicky_42 (EJ), Typher_44 (EJ),

Summary by clusters:

There are 2 clusters represented in this pham: EG, EJ,

Info for manual annotations of cluster EG:

- Start number 7 was manually annotated 1 time for cluster EG.
- Start number 8 was manually annotated 11 times for cluster EG.

Info for manual annotations of cluster EJ:

- Start number 9 was manually annotated 6 times for cluster EJ.

Gene Information:

Gene: Altheas_89 Start: 55144, Stop: 54965, Start Num: 7

Candidate Starts for Altheas_89:

(Start: 7 @55144 has 1 MA's), (10, 55117), (12, 55060),

Gene: Casend_85 Start: 54400, Stop: 54212, Start Num: 8

Candidate Starts for Casend_85:

(2, 54514), (3, 54505), (4, 54487), (5, 54451), (6, 54415), (Start: 8 @54400 has 11 MA's), (10, 54370), (15, 54232),

Gene: DonaldDuck_86 Start: 53752, Stop: 53564, Start Num: 8

Candidate Starts for DonaldDuck_86:

(2, 53866), (3, 53857), (4, 53839), (5, 53803), (6, 53767), (Start: 8 @53752 has 11 MA's), (10, 53722), (15, 53584),

Gene: Goodman_42 Start: 27400, Stop: 27579, Start Num: 9

Candidate Starts for Goodman_42:

(Start: 9 @27400 has 6 MA's), (11, 27463), (13, 27499), (14, 27523),

Gene: Htur_42 Start: 27804, Stop: 27980, Start Num: 9

Candidate Starts for Htur_42:

(Start: 9 @27804 has 6 MA's), (16, 27966),

Gene: Jehoshaphat_86 Start: 54668, Stop: 54480, Start Num: 8

Candidate Starts for Jehoshaphat_86:

(2, 54782), (3, 54773), (4, 54755), (5, 54719), (6, 54683), (Start: 8 @54668 has 11 MA's), (10, 54638), (15, 54500),

Gene: Johann_42 Start: 27400, Stop: 27579, Start Num: 9

Candidate Starts for Johann_42:

(Start: 9 @27400 has 6 MA's), (11, 27463), (13, 27499), (14, 27523),

Gene: Judebell_88 Start: 53895, Stop: 53707, Start Num: 8

Candidate Starts for Judebell_88:

(2, 54009), (3, 54000), (5, 53946), (6, 53910), (Start: 8 @53895 has 11 MA's), (10, 53865), (15, 53727),

Gene: Llemily_86 Start: 53447, Stop: 53259, Start Num: 8

Candidate Starts for Llemily_86:

(2, 53561), (3, 53552), (4, 53534), (5, 53498), (6, 53462), (Start: 8 @53447 has 11 MA's), (10, 53417), (15, 53279),

Gene: Lonelysoil_82 Start: 53204, Stop: 53016, Start Num: 8

Candidate Starts for Lonelysoil_82:

(2, 53318), (3, 53309), (4, 53291), (5, 53255), (6, 53219), (Start: 8 @53204 has 11 MA's), (10, 53174), (15, 53036),

Gene: Nike_84 Start: 54741, Stop: 54562, Start Num: 7

Candidate Starts for Nike_84:

(Start: 7 @54741 has 1 MA's), (12, 54657),

Gene: Phabia_84 Start: 53859, Stop: 53671, Start Num: 8

Candidate Starts for Phabia_84:

(2, 53973), (3, 53964), (4, 53946), (5, 53910), (6, 53874), (Start: 8 @53859 has 11 MA's), (10, 53829), (15, 53691),

Gene: Quammi_83 Start: 53559, Stop: 53371, Start Num: 8

Candidate Starts for Quammi_83:

(2, 53673), (3, 53664), (4, 53646), (5, 53610), (6, 53574), (Start: 8 @53559 has 11 MA's), (10, 53529), (15, 53391),

Gene: Rasovi_42 Start: 27804, Stop: 27980, Start Num: 9

Candidate Starts for Rasovi_42:

(Start: 9 @27804 has 6 MA's), (16, 27966),

Gene: Rowlf_84 Start: 53651, Stop: 53463, Start Num: 8

Candidate Starts for Rowlf_84:

(2, 53765), (3, 53756), (5, 53702), (6, 53666), (Start: 8 @53651 has 11 MA's), (10, 53621), (15, 53483),

Gene: Rudy_82 Start: 53595, Stop: 53407, Start Num: 8

Candidate Starts for Rudy_82:

(2, 53709), (3, 53700), (4, 53682), (5, 53646), (6, 53610), (Start: 8 @53595 has 11 MA's), (10, 53565), (15, 53427),

Gene: SBlackberry_41 Start: 27273, Stop: 27452, Start Num: 9

Candidate Starts for SBlackberry_41:

(Start: 9 @27273 has 6 MA's), (11, 27336), (13, 27372), (14, 27396),

Gene: Sillytadpoles_87 Start: 53435, Stop: 53247, Start Num: 8

Candidate Starts for Sillytadpoles_87:

(2, 53549), (3, 53540), (4, 53522), (5, 53486), (6, 53450), (Start: 8 @53435 has 11 MA's), (10, 53405), (15, 53267),

Gene: Squash_88 Start: 54721, Stop: 54539, Start Num: 8

Candidate Starts for Squash_88:

(1, 54859), (2, 54835), (3, 54826), (5, 54772), (6, 54736), (Start: 8 @54721 has 11 MA's), (10, 54691), (12, 54634),

Gene: Teehee_85 Start: 54665, Stop: 54477, Start Num: 8

Candidate Starts for Teehee_85:

(2, 54779), (3, 54770), (4, 54752), (5, 54716), (6, 54680), (Start: 8 @54665 has 11 MA's), (10, 54635), (15, 54497),

Gene: Tissue_86 Start: 54776, Stop: 54597, Start Num: 7

Candidate Starts for Tissue_86:

(Start: 7 @54776 has 1 MA's), (12, 54692),

Gene: TurboVicky_42 Start: 27513, Stop: 27692, Start Num: 9

Candidate Starts for TurboVicky_42:

(Start: 9 @27513 has 6 MA's), (11, 27576), (13, 27612),

Gene: Typher_44 Start: 27631, Stop: 27810, Start Num: 9

Candidate Starts for Typher_44:

(Start: 9 @27631 has 6 MA's), (11, 27694), (13, 27730),

Gene: Wayne3_86 Start: 54428, Stop: 54240, Start Num: 8

Candidate Starts for Wayne3_86:

(2, 54542), (3, 54533), (4, 54515), (5, 54479), (6, 54443), (Start: 8 @54428 has 11 MA's), (10, 54398), (15, 54260),

Gene: Wheelie_84 Start: 53749, Stop: 53561, Start Num: 8

Candidate Starts for Wheelie_84:

(2, 53863), (3, 53854), (4, 53836), (5, 53800), (6, 53764), (Start: 8 @53749 has 11 MA's), (10, 53719), (15, 53581),

Gene: Zagie_86 Start: 54252, Stop: 54064, Start Num: 8

Candidate Starts for Zagie_86:

(2, 54366), (3, 54357), (5, 54303), (6, 54267), (Start: 8 @54252 has 11 MA's), (10, 54222), (15, 54084),

Gene: Zhafia_90 Start: 54229, Stop: 54041, Start Num: 8

Candidate Starts for Zhafia_90:

(2, 54343), (3, 54334), (4, 54316), (5, 54280), (6, 54244), (Start: 8 @54229 has 11 MA's), (10, 54199),
(15, 54061),