Ready to make the GO annotation on GONUTS



Table filled in with all required information

| Protein Name | Sept2 (synonyms: Nedd-5, Nedd5) |
|-------------------|---|
| Uniprot ID | MOUSE:SEPT2 |
| Organism | Mouse |
| Paper Name | Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin-based structures. <i>Genes Dev.</i> 11 :1535-47 |
| PMID | PMID:9203580 |
| GO ID & term name | GO:0030496 ! midbody |
| Evidence Code | ECO:0000314 direct assay evidence used in manual assertion |
| Notes | Neural precursor cell expressed developmentally down-regulated protein 5 (Nedd5) In Figures 3Ad-3Af, it is shown that Nedd5 localizes to the midbody during late telophase. |

Your GONUTS account

Username:

Use the user account you are assigned **new students speak to instructors All contributions are publicly visible

| _ | | | SIE | J I - IUgill | Log in |
|--|--|--|---|-----------------------------|--------|
| A . | Main page Discussion | Read | View source View history | Search GONUTS | Q |
| Go | GONUTS has been Have a | updated to MW1.29.2. Most things seem to be workin any questions? Please email us at ecoliw | ng but be sure to report proble iki@gmail.com@ | ms. | |
| Main Page | Main Page | | | | |
| Help Report Bug Annotation Jamborees Recent Changes | Welcome to | | | | |
| Login / Create Account | GONUTS | | GONUT | TS is the current home of (| CACAO! |
| Cacao | the Gene Ontology Normal Usage Tracking System | 1 | | | |

Stop 1 loc



Gene Ontology Normal Usage Tracking System -GONUTS wiki

Recent Changes Login / Create Account

Main Page Enter GO at the Top

Help Report Bug Annotation Jamborees

About CACAO Spring 2018 Phage Hunters Summer 2018 Create New Gene Page Create New Literature Page

CACAO GO REF

Class page with scoreboard
Step 3 - Create a gene page

Step 2 - Create a new literature page

Links

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Tools

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Step 4 - Edit table

Step 1 - login

CACAO help pages

This is how you enter your GO annotation on the GONUTS web interface Follow the instructions on these slides After submission, the judges will review your annotation for accuracy

Create a literature page in GONUTS

Con

| | Special page | | | | . | Enter P | MID, cli | ck subi | nit | | |
|---|--|--|--|---|--|---|--|---|---|---|--|
| Main Page Enter GO at the Top | GONUTS has been update Have any qu | ed to MW1.29.2. Most things se uestions? Please email | em to be working us at ecoliwil | but be sure to report p | oblems. | | | | | | |
| Help Report Bug Annotation Jamborees Recent Changes | Create a New Literature Page from D PMID: Enter a valid PMID ID to create a new literature page in the wiki, o Submit | PMID | d from PubMed | | 2. ai | On lite nnotatio | rature p ons alrea | age, ch dy mao | eck fo le in ta | r able | below |
| Login / Create Account | | PMID: | 288136 | 69 | | | | | | | |
| Cacao | Privacy policy About GONUTS Disclaimers | | Chaikeerati | sak, V. Nguyen, K. Ec | an, ME, Erb, ML | , Vavilina, A and Pogliano, J | (2017) The Phage Nucleus a | and Tubulin Spindle Are C | onserved among Large | Pseudomonas | |
| About CACAO | | Citation | Phages. Cel | Rep 20:1563-1571 | | | | Read Weed to | | | 1 Significance |
| Spring 2018 Phage Hunters Summer 2018 Create New Gene Page | | Abstract | We recently proteins acc the Pseudon compartmen dynamic inst | demonstrated that the ording to function, with honas aeruginosa bac talizes proteins and D ability and positions th | large Pseudomo DNA processing teriophages ¢KZ NA during viral ini re nucleus at mide | nas chlororaphis bacteriophag proteins inside and metabolic and ¢PA3. Bacteriophages ¢i ection. We show that the tubu cell. Our results suggest that th | e 201¢2-1 assembles a nucle enzymes and ribosomes outs KZ and ¢PA3 encode a protei filn-like protein PhuZ encoded he phage spindle and nucleus | eus-like structure that enc side the nucleus. Here, w inaceous shell that assem i by each phage assemble play the same functional | loses phage DNA and a e investigate the replica bles a nucleus-like stru as a bipolar spindle that role in all three phages | segregates ation pathway of ucture that t displays s, 201q2-1, qKZ, | 2 Annotations 3 Notes 4 See also 5 References |
| Create New Literature Page | | | and ¢PA3, d | emonstrating that the | se key structures | are conserved among large Pr | seudomonas phages. | | | | |
| CACAO GO REF | Step 2 - Create a | Links | PubMed P | MC6028189 Online | version:10.1016/ | .celrep.2017.07.064g | | | | | |
| Links | new literature | Keywords | Conserved S Phages/gen Ribosomes/ | Sequence; DNA, Viral/ etics; Pseudomonas P genetics; Ribosomes/r | genetics; DNA, Vi hages/metabolisr netabolism; Ribos | ral/metabolism; DNA, Viral/ulti n; Pseudomonas Phages/ultra omes/ultrastructure; Tubulin/g | astructure; Microscopy, Fluor structure; Pseudomonas aeru jenetics; Tubulin/metabolism; | escence; Pseudomonas I uginosa/ultrastructure; Ps Tubulin/ultrastructure; Vir | Phages/classification; P audomonas aeruginosa al Proteins/genetics; Vir | ²seudomonas µ/virology; iral | |
| GO Website GO Ontology Issue | page | edit table | Proteins/me | abolism; Viral Protein: | s/ultrastructure; V | rus Replication | | | | | |
| Tracker Map GO terms | -look at | Significar | ICE [edit] | | | | | | | | |
| Tools | annotations | Annotatio | ODS [odit] | | | | | | | | |
| What links here Related changes | | Showing 0 to | 0 of 0 entries | | | | | | Filter Rows: | | Evidence: Any/All |
| Special pages Printable version | | Gene proc | uct 🔺 | Qualifier | GO ID | GO term name | Evidence Code | with/from | Aspect | Notes | Status |
| Permanent link Page information | | | | | | | | | | | |

Create a gene page in GONUTS for your protein

Create New Gene Page

To create a new gene page, please select a database and enter a unique identifier such as an ID or an accession number. Please be patient, creating a page may take up to 30 seconds.

UniProtKB AC/ID

Create Page

Step 3 - Create

I. Enter UniProt ID/Accession, create page

a gene page

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Permanent link

Page information

| Protein Name | Sept2 (synonyms: Nedd-5, Nedd5) |
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| Uniprot ID | MOUSE:SEPT2 |
| Organism | Mouse |
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| PMID | PMID:9203580 |
| GO ID & | GO:0030496 ! midbody |



SINDV:POLSF

| Species (Taxon ID) | Sindbis virus (SINV). (11034@) |
|-----------------------|---|
| Gene Name(s) | No Information Provided. |
| | Frameshifted structural polyprotein |
| Protein Name(s) | p130 Capsid protein Coat protein C Precursor of protein E3/E2 p62 pE2 Assembly protein E3 Spike glycoprotein E2 E2 envelope glycoprotein Protein TF |
| | External Links |
| UniProt | PODOKO |
| EMBL | J02363 |
| RefSeq | YP_006491225.1 |
| GeneID | 13165406 |
| KEGG | vg:13165406 |
| ко | K19288 |
| Proteomes | UP000006710 |
| | GO:0030430 GO:0020002 |

Contents [hide]

1 Annotations

2 Notes

3 References

SINDV:POLSF

| Species (T ID) | axon | Sindbis virus | (SINV). (11034₽) | 1 | (| Check | if this a | ann | otat | ion |
|-------------------------|-------|-----------------------------|---|---|--------------------|---|---|--------|------------------------|---------|
| Gene Nam | e(s) | No Informatio | on Provided. | | | | | | | |
| Protein Na | me(s) | Frameshifted p130 Capsid | l structural polyproti protein Coat protei | ein n C Precursor of protein E3/E2 p62 pE2 / | Assembly protein E | has alr | eady b | eer | n ma | de |
| -[| Aı | nnotatio | NS [edit] | | | | | | | |
| UniProt | | | | | | | Filter Rows: | | Evidence: | Any/All |
| EMBL | S | Showing 1 to | 30 of 30 entries | | | | | | | |
| RefSeq | _ | | | | | | | | | |
| GenelD | | Qualifier 🔺 | GO ID | GO term name | Reference | Evidence Code | with/from | Aspect | Notes | Status |
| KEGG KO Proteomes | | | GO:0004252 | serine-type endopeptidase | GO_REF:0000002@ | IEA: Inferred from | InterPro:IPR000930 ଜ InterPro:IPR002533 ଜୁ | F | Seeded From | |
| | | | | activity | | Electronic Annotation | InterPro:IPR002548교 | | UniProt | |
| | | | GO:0005198 | structural molecule activity | GO_REF:0000002@ | IEA: Inferred from Electronic Annotation | InterPro:IPR000936@ | F | Seeded From UniProt | |
| | | | | | | | | | | |
| | | | GO:0055036 | virion membrane | GO_REF:0000039@ | IEA: Inferred from Electronic Annotation | UniProtKB- SubCell:SL-0275@ | с | Seeded From UniProt | |
| | е | dit table | 1 | Same GO term, | but new pap | er = make anr | notation | | | |

SINDV:POLSF

edit table

| Species (Taxo ID) | Sindbis virus | ; (SINV). (11034₽) | | | | . Add |
|----------------------|-----------------|--|---|-----------------------------|---|---|
| Gene Name(s |) No Informatio | on Provided. | | | | |
| Protein Name | Frameshifted | l structural polyprot protein Coat protei | tein in C Precursor of protein E3/E2 p62 pE2 | Assembly protein E3 Spike g | lycoprotein | to ge |
| | Annotatio | ns [edit] | - TE | | | |
| UniProt | | | | | | Filter Rows: |
| EMBL | Showing 1 to | 30 of 30 entries | | | | |
| RefSeq | | | | | | |
| GeneID | Qualifier * | GO ID | GO term name | Reference | Evidence Code | with/from |
| KO Proteomes | | GO:0004252 | serine-type endopeptidase activity | GO_REF:0000002@ | IEA: Inferred from Electronic Annotation | InterPro:IPR000930@ InterPro:IPR002533@ InterPro:IPR002548@ |
| | | GO:0005198 | structural molecule activity | GO_REF:0000002@ | IEA: Inferred from Electronic Annotation | InterPro:IPR000936₽ |
| | | | | | | |
| | | GO:0055036 | virion membrane | GO_REF:0000039@ | IEA: Inferred from Electronic Annotation | UniProtKB- SubCell:SL-0275₽ |
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. Add annotation to gene page

Aspect

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Evidence: Any/All

Notes

UniProt

UniProt

UniProt

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3

Status

TableEdit

SINDV:POLSF

2. Add row to annotation table

Showing 1 to 30 of 30 entries

| | Qualifier | GO ID | GO term name | Reference | Evidence Code | with/from | Aspect | Notes | Status |
|-------------------|-----------|------------|------------------------------|----------------|--|--|--------|---------------------------|--------|
| Copy protected | | GO:0005198 | structural molecule activity | GO_REF:0000002 | IEA: Inferred from Electronic Annotation | InterPro:IPR000936 | F | Seeded From UniProt | |
| Copy | | GO:0008233 | peptidase activity | GO_REF:0000037 | IEA: Inferred from Electronic | UniProtKB- KW:KW-0645 | F | Seeded From | |
| | | | | | Απιοιατιστ | III.611 10.11 11002.340 | | | |
| Copy protected | | GO:0055036 | virion membrane | GO_REF:0000002 | IEA: Inferred from Electronic Annotation | InterPro:IPR002533 InterPro:IPR002548 | С | Seeded From UniProt | |



3. Copy info from your table to the form



| Protein Name | Sept2 (synonyms: Nedd-5, Nedd5) |
|-------------------|---|
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| Organism | Mouse |
| Paper Name | Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin-based structures. Genes Dev. 11:1535-47 |
| PMID | PMID:9203580 |
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| Evidence Code | ECO:0000314 direct assay evidence used in manual assertion |
| Notes | Neural precursor cell expressed developmentally down-regulated protein 5 (Nedd5) In Figures 3Ad-3Af, it is shown that Nedd5 localizes to the midbody during late telophase. |

| TableEdit | |
|---------------|-------------------------------------|
| SINDV:POLS | F |
| Qualifier | |
| GO ID | |
| GO term name | |
| Reference | |
| Evidence Code | |
| with/from | |
| Aspect | |
| Notes | |
| Status | Missing: GO ID, evidence, reference |
| Refresh Sav | e Row Cancel |

4. Double check all your entered information

Remember, the notes section needs the following items to be correct:

- I. Organism
- 2. Protein name as named in paper and uniprot if they are different
- 3. Figure in paper that supports your annotation with a little description

If you miss these items, your points may be stolen via challenge!!

> If your page does not automatically refresh, click refresh to populate in the GO term name and aspect

| INDV:POLS | F |
|---------------|---|
| Qualifier | G |
| GO ID | GO:0019031 |
| GO term name | viral envelope |
| Reference | PMID: 3 27852864 |
| Evidence Code | IMP: Inferred from Mutant Phenotype |
| with/from | |
| Aspect | c |
| Notes | Figure 6C demonstrates that the E1, E2, and TF proteins (all products of the <u>frameshifted</u> <u>polyprotein</u>) are found in the <u>virion</u> envelope of <u>Sindbis</u> virus. |
| Status | complete |

5. Save row, first iteration

| SINDV:POLS | F | | | | | | |
|---------------|---|--|--|--|--|--|--|
| Qualifier | | | | | | | |
| GO ID | G0:0019031 | | | | | | |
| GO term name | viral envelope | | | | | | |
| Reference | PMID: 27852864 | | | | | | |
| Evidence Code | IMP: Inferred from Mutant Phenotype | | | | | | |
| with/from | | | | | | | |
| Aspect | c | | | | | | |
| Notes | Figure 6C demonstrates that the El, E2, and TF proteins (all products of the <u>frameshifted</u> <u>polyprotein</u>) are found in the <u>virion</u> envelope of <u>Sindbis</u> virus. | | | | | | |
| Status | complete | | | | | | |

When done, click save row 🍯

6. Save row, second iteration

TableEdit

SINDV:POLSF

Changes are not saved permanently until you save the table back to the wiki page

Scroll all the way to below the annotation table

| | Copy protected | GO:0055036 | virion membrane | GO_REF:0000002 | IEA: Inferred from Electronic Annotation | InterPro:IPR002533 InterPro:IPR002548 | с | Seeded From UniProt | |
|------------------------------------|--|------------|-----------------|----------------|---|--|---|---------------------|--------------|
| Click Save table to wikipage | Add row Add multiple Save Table to wiki page: SIN | | | | | Revert Table to Saved | | | Delete Table |

7. Check the annotation row saved to the table



edit table