

How to provide updated gene annotations for inclusion in IWGSC **RefSeq annotation v2.0**

Michael Alaux, Thomas Letellier **Zurg** Fred Choulet, Hélène Rimbert



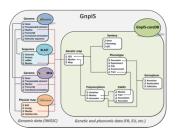














Process

- 1. Follow the guidelines to generate your GFF3
- 2. Send your file to GDEC
- 3. File validation by GDEC
- 4. GDEC send the data to URGI to display in the next release in the browser

https://wheat-urgi.versailles.inra.fr/Seq-Repository/Manuallycurated-genes



Guidelines

CONTACTS

- Questions about gene annotation and recipients of the file: Hélène Rimbert , Frédéric Choulet .
- Questions about the browser and the website: Thomas Letellier , Michael Alaux .

GUIDELINES

- The manually curated genes must be transfered in GFF3 format following The Sequence Ontology specifications. See description here .
- Please make sure your GFF3 file contains at least gene/mRNA/exon/CDS features with uniq ID and Parent attributes. The only case where an ID is not necessary concerns CDS & CDS features if they have Parent attribute defined.
- All attributes and feature types are case sensitive! i.e. Id is not the same as ID.
- Please make sure the chromosome names you are using are the same as the official release IWGSC RefSeq v1 annotations and sequences.
- Please, be as precise and complete as possible. Every feature which is not described in your annotation compared to the previous one will be lost.
- Once transfered, your file will be validated and added to the browser in the next release.

DOWNLOAD

example_of_minimal_gff3.txt (1.90 kB)



Other needs ?

If needed, we can also set-up a software to help the teams without bioinformatics facilities to perform their manual annotation: Web Apollo

Available Tracks	Apollo File View Help Tools													
X filter by text	0 500,000	1,000,000	1,500,000	2,000,000	2,500,000	,000,000	3,500,000	4,000,000	4,500,000	5,000,000	5,500,000	6,000,000	6,500,000	7,000,000
					ΘΘ	0 O	Scaffold1 -	Scaffold1:28	38409284294	2 (4.54 Kb)	Go 🔬			
blastx_Annelida	2,838,750				2,840,000	1			2,841,250				2,842,500	
blastx_Arthropoda				_										
blastx_Atelocerata	User-created Annotations EaffTmpM000167-RB													
blastx_Cephalochordati														
blastx_Chelicerata	EaffTmpM000167-RA													
blastx_Cnidaria										_				
blastx_Craniata	© EAFF_V0.5.3-Models													
blastx_Crustacea		Ea	EaffTmpM000167-RA											
blastx_Echinodermata	© augustus_masked	augus	stus_masked-	Scaffold1-abinit-	gene-29.1-mRN	A-1				-				
blastx_Mollusca														
blastx_Nemata														
blastx_Nematomorpha														
blasty Onychophora														

