Manual for Molgenis 5gpm Annotation

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1	Overerving	Omim L	ink 💌	Gene (gene) 🛛 💌	cDNA (cNomen) 💌	Protein (pNomer 💌	HGMD Disease 💌
2	Comp/Dom	m.nih.go	v/omim/60	AIPL1	c.937G>T	p.A313S	Leber congenital
3	Comp/Dom	m.nih.go	v/omim/60	ALMS1	c.10269G>C	p.K3423N	
4	Comp/Dom	m.nih.go	v/omim/17	ALPL	c.1381G>A	p.V461I	
5	Comp/Dom	m.nih.go	v/omim/61	ANKRD11	c.6497T>G	p.M2166R	
6	Comp/Dom	m.nih.go	v/omim/61	ARID1B	c.2419C>T	p.P807S	
7	Comp/Dom	m.nih.go	v/omim/60	ATIC	c.281A>G	p.N94S	
8	Comp	m.nih.go	v/omim/60	ATN1	c.1500G>T	p.Q500H	
9	Comp	m.nih.go	v/omim/60	AINI	C.2260G>A	p.v754i	
10	Comp/Dom	m.nin.go	v/omim/11	BUNF BDAT1	c.*356-10eiA		
12	Comp/Dom	m.nin.go	v/omim/61		c.1030G>1	p.V546L	
12	Comp/Dom	m.nin.go	v/omim/60	CAUNAIA	0.27490>1	p.P9175	Homosystinusia
14	Comp/Dom	m.nin.go	v/omim/61	0000	0.000120	p.12761	nomocystinuna
15	Comp/Dom	m.nin.go	v/omim/60	COU18A1	c.1903C/A	p.0000	
16	Comp/Dom	m nih go	v/omim/12	COL18A1	C.177102A	p.03313	
17	Comp/Dom	m nih go	v/omim/12	COL4A1	c 3448C>A	p.01150K	Haemorrhagic
18	Comp/Dom	m nih go	v/omim/61	C006	c.62C>T	p.S21F	пастоппавіс
19	Comp/Dom	m.nih.go	v/omim/60	CPA6	c.192+4A>C	p.0221	
20	Comp	m.nih.go	v/omim/60	CREBBP	c.6685G>A	p.G22295	
21	Homo	m.nih.go	v/omim/60	CREBBP	c.3370-4delT		
22	Comp/Dom	m.nih.go	v/omim/61	EMG1	c.126-1T>C		
23	Comp	m.nih.go	v/omim/61	EPG5	c.5954G>A	p.R1985Q	
24	Comp	m.nih.go	v/omim/61	EPG5	c.2063T>C	p.F688S	
25	Comp/Dom	m.nih.go	v/omim/13	ERCC3	c.1027+3A>G		
26	Comp/Dom	m.nih.go	v/omim/60	ERCC6	c.2825C>T	p.T942M	
27	Comp/Dom	m.nih.go	v/omim/60	FKRP	c.1177G>A	p.V393I	
28	Homo	m.nih.go	v/omim/60	GAA	c.858+5_858+6ins		
29	Comp/Dom			GCM2	c.1060A>G	p.M354V	
30	Comp/Dom	m.nih.go	v/omim/13	GNAS	c.1556C>A	p.P519Q	
31	Comp	m.nih.go	v/omim/60	GPR98	c.6095C>T	p.A2032V	
32	Comp	m.nih.go	v/omim/60	GPR98	c.10039T>C	p.F3347L	
33	Comp	m.nih.go	v/omim/60	GPR98	c.18746T>G	p.L6249R	
34	Homo	m.nih.go	v/omim/30	GRIA3	c.380dupG		
35	Homo	m.nih.go	v/omim/60	KAT6B	c.3310_3312delGA	p.E1097del	
36	Comp	m.nih.go	v/omim/60	LRP2	c.10804G>A	p.A3602T	
37	Comp	m.nih.go	v/omim/60	LKPZ	c.7918A>G	p.12640V	
38	Comp	m.nih.go	v/omim/60	LKPZ	c.5293G>A	p.V1765M	
39	Comp/Dom	m.nih.go	v/omim/60	LYST	c.11268-5delT	- 07040	
40	Comp/Dom	m.nih.go	v/omim/60	MANBA	c.2351C>G	p.P784K	

1: You start with the file that was downloaded from Cartagenia

2: Download the Molgenis EMX template from the www.molgenis64.target.rug.nl homepage (after logging in downloads tab)



3: Copy paste your Cartagenia data into the EMX template, starting in the second column

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1	Identifier	Overerving	#CHROM	POS	Stop	REF	Allele_1	Allele_2	ALT	Transcript	n	Class	dbSNP	OMIM_refs	OMIM	AF_Allele_1	AF_Allele_2	1	2
										NM_19935					http://omim org/entry/60				
2		1 Comp/Dom	16	77323312	77323312	с	с	G	G	5.2			rs11643553	607512	7512		0,5	28	13
										NM_00679			rs13946978		http://omim org/entry/60				
3		2 Dom	18	12337348	12337348	с	с	т	т	6.2			5	604581	<u>4581</u>		0,5	21	20
															http://omim				
4		3 Comp/Dom	11	27679011	27679011	т	т			NM_17073			rs3838785	113505	org/entry/11 3505		0.5	19	15
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5		4 Comp/Dom	11	117280516	117280516	A	A	с	с	NM_01495 6.4				614848	org/entry/61 4848		0.5	17	13
															http://omim				
6		5 Dom	3	190106074	190106074	G	G	с	с	0.3			rs76555381	603959	org/entry/60 3959		0,5	15	11
										NIM 00428			**14334769		http://omim				
7		6 Comp/Dom	16	3820723	3820723	т	т	с	с	0.2			5	600140	0140		0,5	22	17
										NM 01490			rs14763097		http://omim				
8		7 Dom	9	131708133	131708133	т	т	с	с	8.3			7		org/entry/	_	0,5	25	16
										NM 00633					http://omim org/entry/61	-			
9		B Homo	12	7080212	7080212	т	с	с	с	1.7			rs11428482	611531	<u>1531</u>	1	1	31	31
										NM_00108					http://omim org/entry/61				
10		9 Comp/Dom	16	53860052	53860052	G	G	Α	A	0432.2			rs79206939	610966	0966		0,5	29	24
										NM 00015					http://omim				
11	1	D Homo	17	78081526	78081526		GCAGCGG	GCAGCGG	GCAGCGG	2.3			rs3071247	606800	6800	1	1	30	30
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4: The name of the tab your Cartagenia data is in should be the same as the name in the entity column in the attribute sheet.

IMPORTANT!! Every row needs an unique identifier, so fill in 1, 2, 3, etc... in the identifier column.

5: Go to molgenis64.target.rug.nl and log in with your password and username

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Apps	Ret Onlin	e Loonstrookjes	D ORCID	Save to Mendeley	M Gmail	8 Calender	0 UMCG mail	😻 UMCG intranet	G GitHub	Jenkins	🗋 Molgenis – Tickets	😌 Dropbox	🕒 Nu	ST LICD	QC DC
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# molgenis	Downloads	Import data	Data Explorer	Admin -	Account
1 Upload file	2 Option	is 🛛 🕄 Va	lidation	Result	
Upload a file					
Select a file					
	FAVORITES UMCG Projects git bin Mehaan Applications Desktop Ownloads Dropbox DEVICES Remote Disc Citrix Receiver SHARED	Imilian International Support Name Imilian International Support Imilian International Support Imilian International Support Support Imilian Internatinternatinteres Support	X_Template Q w.xlsx mplate	Cancel Open	
← Previous			Rest	art Nex	t→

6: navigate to the import data tab and select a file to upload

7: Go through steps by pressing next and it should validate and import your data

Upload file 2 Options 3 Value	dation 4 Result
Import success	
Imported 80 patient_04 entities.	

8: Navigate to the data explorer tab and select your patient in the dropdown

molgenis Downloads I	mport data D	ata Explorer	Admin -	Account				
Choose a dataset:	5GPM_	protocol	A					
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H <al590639.1< th=""><th>patient_ tags</th><th>_04</th><th></th><th></th></al590639.1<>	patient_ tags	_04						

9: Go to the annotator module (in the dataexplorer), select CGD and OmimHpo and CADD and click run annotation

Data	Annotators						
Annotators available							
Select all	Deselect all						
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🗹 CADD 🔇							
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Clinical (🥑 Clinical Genomic Database 🕄						
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Run anno	tation						

10. After the success message you can browse and filter your data, or download it as a csv

Seizures	X Q
« 1 2 3 4 »	80 items found
	Download as CSV