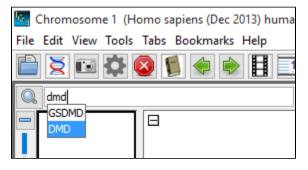
Search

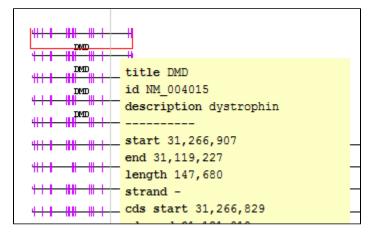
General Function Checklist

- 1. Open the H_sapiens_Dec_2013 genome.
- 2. Type **dmd** in the Quick-search box.



- DMD is one of the suggested matches in the Quick-search drop-down.
- Mac
- Linux
- Windows

Select DMD from the Quick-search drop-down to navigate to the longest known gene in the human genome, the dystrophin gene (DMD).



- IGB has navigated to the proper gene (*dystrophin*). You can do this by viewing the selection info for the gene. The gene's title should be "DMD". *(Known issue. See IGBF-2625).
- Mac
 - Linux
- Windows

Select the Advanced Search tab at the bottom of IGB.

V Data Access Annotation Graph	Advanced Search Sele	ction Info Sliced View	External View Plug-ins
Search for annotations or sequence in H			
Search ID, Name, or Title $ \lor $ in genome	✓ for DMD		
ID	Title		Description
NM_001166237	GSDMD		gasdermin D
NM_001166237	GSDMD		gasdermin D
NM_024736	GSDMD		gasdermin D
NM_024736	GSDMD		gasdermin D
NM_004023	DMD		dystrophin
NM_004022	DMD		dystrophin
NM_004021	DMD		dystrophin
NM_004020	DMD		dystrophin
NM_004019	DMD		dystrophin
NM_004018	DMD		dystrophin
NM_004017	DMD		dystrophin
NM_004016	DMD		dystrophin
NM_004015	DMD		dystrophin
NM_004014	DMD		dystrophin
0			

• Search results for **DMD** are already being displayed in the tab.

- Mac
- Linux
- Windows

Select the top search result in the Advanced Search tab (ID: NM_001166237, Title: GSDMD).

$\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow$	$\rightarrow \rightarrow $
GSDMD	
→→→→→→	→→→→→→→ →→→→→→→ →→→→→→→→
a24.3	
143,558,000	title GSDMD 0,000
•	id NM_001166237
	description gasdermin D
	start 143,553,386
	end 143,563,061
	length 9,675
	strand +
	cds start 143,559,335
	cds end 143,562,904
	chromosome chr8
	score 0.0
	forward true

- IGB has navigated to NM_001166237 in the gene GSDMD.
- Mac
- Linux
- Windows

Navigate to the following coordinates: chr1:30,688,740-31,361,080

0.	chr 1:30,688,740-3	1,361,080	K () -		라 🗘 Load 🛙	Data 🛃 Load Sequence
	RefGene (+)					
	Coordinates	3	,800,000	p35.2 31,000,000	31,200,000	
	RefGene (-)			*************************************		31,293,845

- IGB has navigated to the proper location.
- Mac
- Linux
- Windows

In the Advanced Search tab at the bottom IGB, select Residues from the search type drop-down menu. Enter "TAG|TAA|TGA" into the Advanced Search textbox and start the search.

Search for annotations of	or sequence in H_s	apiens_Dec_201	3					
Search Residues	\sim in chr1	✓ for	TAG TAA TGA				S (1997)	
Pattern	Color	Start	End	Strand	Chr	Matched sequence		Τ
TGA		30688754	30688757	+	chr 1	tga		1
TGA		30688761	30688764	-	chr 1	tga		
TGA		30688766	30688769	-	chr 1	tga		
TGA		30688791	30688794	-	chr 1	tga		
TGA		30688809	30688812	-	chr 1	tga		
TGA		30688818	30688821	+	chr1	tga		
TAG		30688822	30688825	+	chr 1	tag		
TAA		30688831	30688834	-	chr 1	taa		
TAG		30688857	30688860	-	chr1	tag		
TAA		30688858	30688861	+	chr 1	taa		
TAA		30688872	30688875	-	chr 1	taa		
TAG		30688873	30688876	+	chr 1	tag		
TGA		30688882	30688885	+	chr 1	tga		_
ТАА		30688887	30688890	-	chr1	taa		

• Verify that the search has located matches for "TAG", "TAA", and "TGA".

- Mac
- Linux
- Windows

Navigate to the following coordinates: chr1:30,992,236-30,992,279

	p35.2
	0,992,240 30,992,250 30,992,260 30,992,270
T G	TA A C C T A C A T C A C T A A C A G G T T C A C A A G G G C T A G C T A T
•	Residues have been highlighted on the sequence axis.
	lac
	inux
	Vindows
2.	 lavigate to the following coordinates: chr1:30,688,740-31,361,080 in the Advanced Search tab at the bottom of IGB, select Residues from the search type drop-down menu. inter the following regular expressions (Note - clear the search results between each search (click the red X)): a. TATATtatg b. TATA.ttatg c. TATA.tatg d. TAT[AT]Ttatg e. [TA]{1,3}Tttatg f. TATATtatg g. TATAT.*tatg h. TATAT.*ttatg
•	Results show up for each search conducted above.
	lac
	inux
	Vindows
	n the Advanced Search tab, select Properties from the search type drop-down menu. Inter false in the search text box.
•	here are many results and if you select one (double-click it) and go to the Selection Info panel, there is at least one attribute that has the valu Ise.
	lac
	inux
	Vindows

Enter **family** in the search text box.

- There are many results and all include the word **family** in the description. If not, check the selection info panel.
- Mac
- Linux
- Windows