

# Gene Drug Index

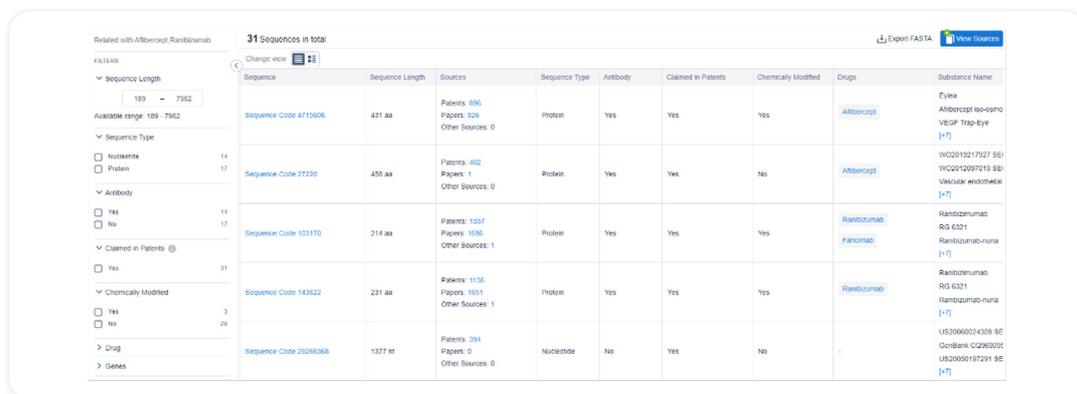
PatSnap Bio combines over 600 million sequences with over 1.3 million patents from major patent jurisdictions and over 2 million non-patent literature sources. The platform makes it easy to search for proteins, DNA and RNA sequences within patents and find pertinent results.

Bio Premium connects patent and non-patented sequences with drug targets and therapeutics, enabling IP and R&D teams to manage their innovation pipeline, and IP strategy. The sequences within Bio Premium are indexed to drugs and targets. In partnership with CAS, our data coverage includes manually curated patent sequences, annotations, and non-patent sequences.

1. To perform a search identifying sequences associated with a drug or target of interest, select “Drug/Gene Index” from the available search options on the of the sidebar.
2. Search using a drug name, or the synonyms, or browse our drop-down directory available for a target search. You can search for up to three drugs or targets simultaneously.



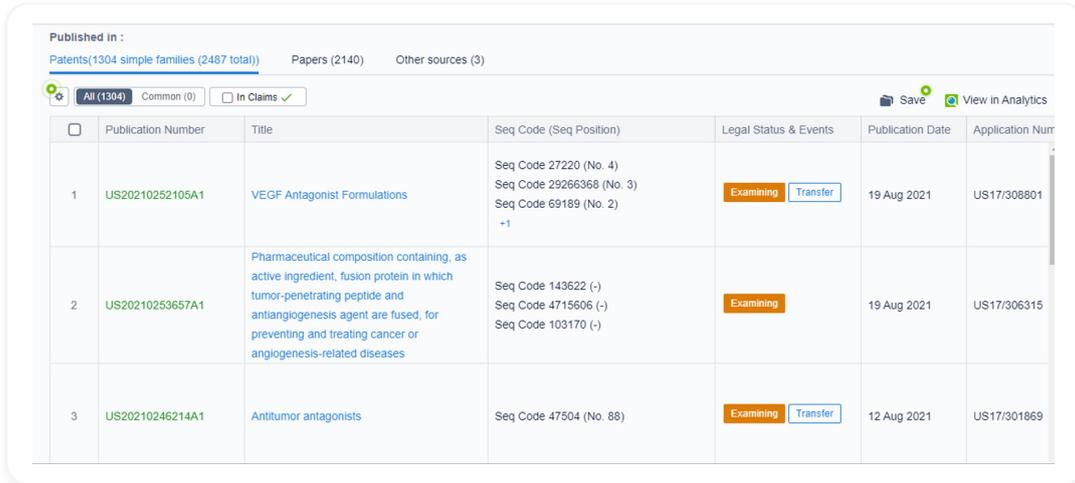
3. The results page will provide a list of sequences associated with your drug(s) or target(s), an overview of the sequence details, and the number of patents, papers (non-patent sources) and other sources associated with each sequence. Additional details can be viewed by clicking View Sources.



Sequence Code	Sequence Length	Sources	Sequence Type	Antibody	Claimed in Patents	Chemically Modified	Drugs	Substance Name
Sequence Code: 4715806	431 aa	Patents: 696 Papers: 528 Other Sources: 0	Protein	Yes	Yes	Yes	Aflibercept	Eylea Aflibercept iso-opto VEGF Trap-Eye [+]
Sequence Code: 27220	458 aa	Patents: 402 Papers: 1 Other Sources: 0	Protein	Yes	Yes	No	Aflibercept	WO2019217927 SE WO20192097019 SE Vascular endothelial [+]
Sequence Code: 103170	214 aa	Patents: 1337 Papers: 1656 Other Sources: 1	Protein	Yes	Yes	Yes	Ranibizumab Faricimab	Ranibizumab RG 6321 Ranibizumab-runa [+]
Sequence Code: 143922	231 aa	Patents: 1130 Papers: 1621 Other Sources: 1	Protein	Yes	Yes	Yes	Ranibizumab	Ranibizumab RG 6321 Ranibizumab-runa [+]
Sequence Code: 2526368	1377 nt	Patents: 284 Papers: 0 Other Sources: 0	Nucleotide	No	Yes	No		US20060024309 SE GenBank: CG26502 US20050197291 SE [+]

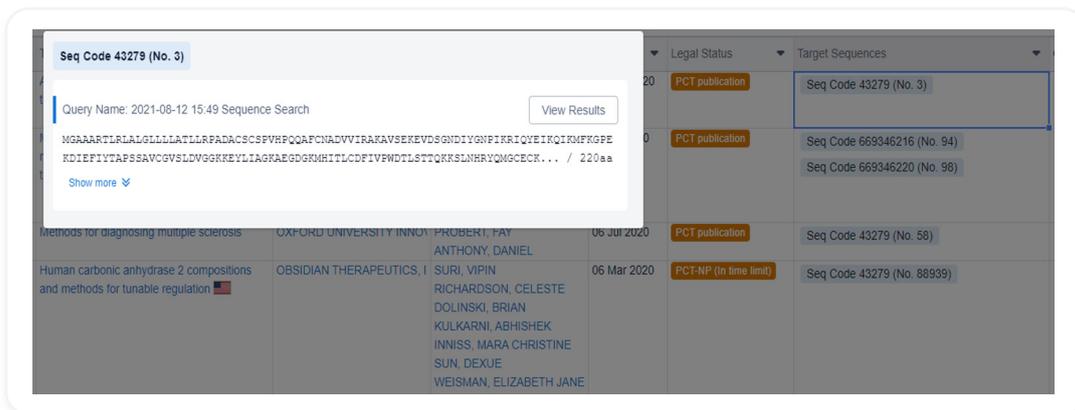
4. Use the filters within the results screen to refine the sequences further. (TIPS: Using the filters on the left-hand side of your results screen, you can choose to refine your sequences, for example, by sequence length, whether it is an antibody or if it has been chemically modified through site-specific modifications, etc. If you are interested in performing an FTO search, you can utilize the “claimed in patents” filter to filter on a sequence level.)
5. Next, select the sequence codes of interest to gain an overview of the sequence itself, including the full sequence, primary, secondary, other associated names of said sequence as well as patent & literature documents associated with the sequence. (TIP: you can also click on the hyperlinked drug or targets within the results page to view its details. This will provide an overview of the drug or target of interest including the sequence information, synonyms, associated drugs, targets and diseases, regulatory approval information for drugs etc.)
6. To view the source documents associated with the sequences within your results page, click on the ‘View Sources’ button to select your set of results to which the sequences are associated.
7. Once you have selected the result set you wish to view you will be taken to the patent preview page within the Bio platform.

 Tip: At this point, you can filter your results using PatSnap provided patent filters or use the “In claims” button to see patent results where the sequence searched is only shown in the claims section of the patents found.



Published in :						
Patents (1304 simple families (2487 total))   Papers (2140)   Other sources (3)						
All (1304)   Common (0)   In Claims <input checked="" type="checkbox"/>						
<input type="checkbox"/>	Publication Number	Title	Seq Code (Seq Position)	Legal Status & Events	Publication Date	Application Number
1	US20210252105A1	VEGF Antagonist Formulations	Seq Code 27220 (No. 4) Seq Code 29266368 (No. 3) Seq Code 69189 (No. 2) +1	Examining <input type="button" value="Transfer"/>	19 Aug 2021	US17/306801
2	US20210253657A1	Pharmaceutical composition containing, as active ingredient, fusion protein in which tumor-penetrating peptide and antiangiogenesis agent are fused, for preventing and treating cancer or angiogenesis-related diseases	Seq Code 143622 (-) Seq Code 4715606 (-) Seq Code 103170 (-)	Examining	19 Aug 2021	US17/306315
3	US20210246214A1	Antitumor antagonists	Seq Code 47504 (No. 88)	Examining <input type="button" value="Transfer"/>	12 Aug 2021	US17/301859

- Once you are happy with the results found, clicking on the ‘View in Analytics’ button will take the results into the analytics platform.
  - At this point, all the functionalities can from the analytics platform be used on the patent results. For example, you can now apply keyword refinements to the patent results.
- Once you have finalized all refinements on the patents found, the results can be saved in a bio-enabled workspace which allows you to keep track of the target sequences listed within each patent.



Seq Code 43279 (No. 3)

Query Name: 2021-08-12 15:49 Sequence Search

NGAAARTLRLALGELLATLLRFPADACSCSPVHPQQAFCNADVVIRAKAVSEKEVDGNDIYGNFIRRIQYETIRQIMFKGPE  
RDIEFIYAPSSAVCGVSLDVGKREYLIAGKAEGGGRMHILDCDFIVFNDTLSTQKKSINHRVQMGCECK... / 220aa

Legal Status	Target Sequences
PCT publication	Seq Code 43279 (No. 3)
PCT publication	Seq Code 669346216 (No. 94)
PCT publication	Seq Code 669346220 (No. 98)
PCT publication	Seq Code 43279 (No. 58)
PCT-NP (In time limit)	Seq Code 43279 (No. 88939)

Get in touch:

[patsnap.com](https://patsnap.com) | [hello@patsnap.com](mailto:hello@patsnap.com) | [@patsnap](https://twitter.com/patsnap)

