

直接・間接にNF-kappaB1 に活性化(transactivation)または、不活性化(transrepression)される遺伝子群の情報の取得方法。

The screenshot shows the BIOBASE Knowledge Library search interface. On the left, there are navigation buttons: Quick Search, Advanced Search, TRANSFAC Module Search, Ontology Search, and Upload Gene List. Below these is a Help icon and the word 'Tools'. The main search area has the following fields:

- Search for:** A dropdown menu set to 'Reaction'.
- Search term:** A text input field containing 'transactivation'. Below it are radio buttons for 'Use wildcards' (selected) and 'Exact word search'.
- Search field:** A dropdown menu set to 'Effect'.
- Search field description:** A text area containing 'Controlled vocabulary describing reaction mechanisms and functional effects'.
- Output fields:** A section with a checked checkbox for 'Name' and a link for '[More]'. Below this is a button labeled 'Add another term'.

Red annotations highlight the 'Reaction' dropdown, the search term 'transactivation', the 'Effect' dropdown, and the 'Add another term' button.

まず、赤○のように設定してください。この場合は、活性化される遺伝子群がターゲットです。DNA binding ではなくtransactivation にすることで、直接だけではなく間接的に活性化されるものも含むようになります。次にadd another term をクリックしてください。

同様に赤○のように設定してください。その後、more をクリックし、Educt, product 等にもチェックを入れて結果を表示させてください。

**BIOBASE Knowledge Library** Logout

Search term:

Search field:

Search field description: Molecules which are educts in this reaction (name, type)

Use wildcards  Exact word search

Name  
 Effect  
 Type  
 Secondary accession  
 Quality  
 Experimental evidence  
 Comments/Annotations  
 Educt  
 Product

[Output fields \[Less\]](#)

Quick Search  
Advanced Search  
TRANSFAC Module Search  
Ontology Search  
Upload Gene List  
Help  
Tools







Search within results のところで gene を選んで頂き、実行します。これで、ターゲット遺伝子群のリストが得られます。

BioKnowledge® Search

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**Search Results**

Reaction Search for (Effect = transactivation AND Educt = NF-kappaB1): 51 2 pages 1 2 > >> Hits on page 50

 Save  Export  Pathfinder  Ontology  FASTA  Profiles

Mark all on page

**Family**  **Gene**  **Pathway**  **Protein**  **Small Molecule**

	Name	Reaction effect	Reaction type	Educt	Product
<input type="checkbox"/>	<a href="#">c-Rel(h):NF-kappaB1-p50(m.s.) --&gt; IL-2Ralpha(h)</a>	DNA binding; transactivation; indirect	molecular evidence	c-Rel:NF-kappaB1-p50	IL2RA
<input type="checkbox"/>	<a href="#">NF-kappaB1-p50(h):RelA-p65(h) --&gt; Ctcf(h)</a>	transactivation; indirect	molecular evidence	NF-kappaB1-p50:RelA-p65	CTCF
<input type="checkbox"/>	<a href="#">NF-kappaB1-p50(m.s.):RelB(m) --&gt; c-myc(m)</a>	DNA binding; transactivation; indirect	molecular evidence	NF-kappaB1-p50:RelB	Myc

**Tools**

Quick Search  
Advanced Search  
TRANSFAC Module Search  
Ontology Search  
Upload Gene List  
Help

この情報を、excel file 形式でexportしていただけます。また、search within results のところをprotein にして実行して頂くと、遺伝子名ではなく、タンパク質の名前のリストそして情報が取り出せます。

https://portal.biobase-international.com/cgi...  
 mark all on page

	Constraint from Reaction	Name	Species/Taxon	Gene type
<input type="checkbox"/>	<a href="#">RX002366005 - c-Rel(h):NF-kappaB1-p50(m.s.) --&gt; IL-2Ralpha(h)</a>	<a href="#">IL2RA</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX002368785 - NF-kappaB1-p50(h):RelA-p65(h) --&gt; Ctcf(h)</a>	<a href="#">CTCF</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX002195904 - NF-kappaB1(m.s.) --&gt; CRP(h)</a>	<a href="#">CRP</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001493718 - NF-kappaB1-p50(h):NF-kappaB1-p50(h) --&gt; CCL19(h)</a>	<a href="#">CCL19</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001490106 - NF-kappaB1-p50(m.s.):RelA-p65(h) --&gt; NFKBIA(h)</a> <a href="#">RX001490110 - c-Rel(h):NF-kappaB1-p50(m.s.) --&gt; NFKBIA(h)</a> <a href="#">RX001490112 - NF-kappaB1-p50(m.s.):RelB(h) --&gt; NFKBIA(h)</a>	<a href="#">NFKBIA</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001490107 - NF-kappaB1-p50(m.s.):RelA-p65(h) --&gt; NFKB2(h)</a> <a href="#">RX001490109 - c-Rel(h):NF-kappaB1-p50(m.s.) --&gt; NFKB2(h)</a> <a href="#">RX001490111 - NF-kappaB1-p50(m.s.):RelB(h) --&gt; NFKB2(h)</a>	<a href="#">NFKB2</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001490131 - NF-kappaB1-p50(m.s.):RelA-p65(h) --&gt; IL12A(h)</a> <a href="#">RX001490132 - c-Rel(h):NF-kappaB1-p50(m.s.) --&gt; IL12A(h)</a>	<a href="#">IL12A</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001451948 - NF-kappaB1-p50(m.s.) --&gt; SELP(h)</a>	<a href="#">SELP</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX001088729 - NF-kappaB1-p50(m.s.):RelA-p65(m.s.) --&gt; BRCA2(h)</a>	<a href="#">BRCA2</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX000982420 - NF-kappaB1-p50(h):RelA-p65(h) --&gt; BCL2(h)</a> <a href="#">RX000982481 - RelA-p65(m):NF-kappaB1(m) --&gt; BCL2(h)</a>	<a href="#">BCL2</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX000000486 - NF-kappaB1-p50(h) --&gt; IFNB1(h)</a> <a href="#">RX000071067 - NF-kappaB1-p50(m.s.):RelA-p65(m.s.) --&gt; IFNB1(h)</a>	<a href="#">IFNB1</a>	Human	gene
<input type="checkbox"/>	<a href="#">RX000015831 - NF-kappaB1-p50(h) --&gt; NFKB1(h)</a>	<a href="#">NFKB1</a>	Human	gene