

# Evaluation of RNAi reagents

This E-RNAi option allows to evaluate/re-map existing long dsRNA- or siRNA sequences.

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## Selection of reagent and organism

### Evaluation of dsRNA sequences [Help]

#### 1. Select type of RNAi reagent

long dsRNA

#### 2. Select organism

D. melanogaster (FlyBase r5.19)

#### 3. Enter dsRNA nucleotide sequences in raw or FASTA format (max. 50 sequences), in raw format newlines separate different queries...

... or upload a file in FASTA format (\*.fa, \*.fasta and \*.txt)

Choose File no file selected

[Help]

Examples: [FASTA](#), [RAW](#)

Reset

Submit

Select type of RNAi reagent

Choose **long dsRNAs** for the evaluation of long dsRNAs (including esiRNAs) or **siRNAs** for the evaluation of short interfering RNAs.

Select organism

Select the organism used for the RNAi experiment.

## Paste or upload a reagent sequence

It is recommended to paste reagent sequences in [FASTA](#) format. Raw sequences can also be pasted, however a query sequence must not contain any newline (each newline is interpreted as new query by E-RNAi).

Alternatively, reagent sequences can also be uploaded from file. Files must contain sequences in FASTA format and \*.fa, \*.fasta and \*.txt file extensions are allowed only.

In the example below three reagent sequences from the [HFA/DRSCv1](#) library were pasted in FASTA format.

## Evaluation of dsRNA sequences [Help]

1. Select type of RNAi reagent

long dsRNA

2. Select organism

D. melanogaster (FlyBase r5.19)

3. Enter dsRNA nucleotide sequences in raw or FASTA format (max. 50 sequences), in raw format newlines separate different queries...

... or upload a file in FASTA format (\*.fa, \*.fasta and \*.txt)

Choose File no file selected

[Help]

Examples: [FASTA](#), [RAW](#)

```
>HFA11000
AAAATGGCCGAGAGCTTGTGCAATGAGATCAAGAGACTGCACAAG
CGAAACAGCTGCCGATCACTTCGTGGCCTTGGAAACGCATGCAG
GATTCGGAGTCCAGCGGATCGGAGATGGGTCCAGAGAGTCCCGCG
CGCCCGACAGTCCACAGAACCTGATGCCACGGCGAAAAGGCC
CTGTTACGTTCAAGCAGGTGCAGCTCATTGCGAGAGCATGATCA
AGGAGCGGAGAATCAGCTAAGGGAGCGCTACGAGTCCGTGCTGA
CCACCAAGCTGGCCGAGCAGTACGATGCCTTGTCAAGTTCACATA
TGATCAGATACAGCCTCCCTACGAGGCAGCGCCTA
>HFA12141
AACGCCGCCACAAAGCCATTGAGGGCTATGCAATTGAACGCCAA
TGGCCATGGCCTGGAGCCAGATTACGCTGTAGCACGAGGCAGCG
CCAACCAACCGCTCCGTACGGTGGCTCTCTGGTAAAGATTGCTGGA
GCACCAATGCCGCCACGGCTCCCCGGTCAAGGATATCCCATTCAA
GCGCCGACAGCGCCAGCATAACCATCACCAGTCGGCCAAAACCTTA
```

Reset

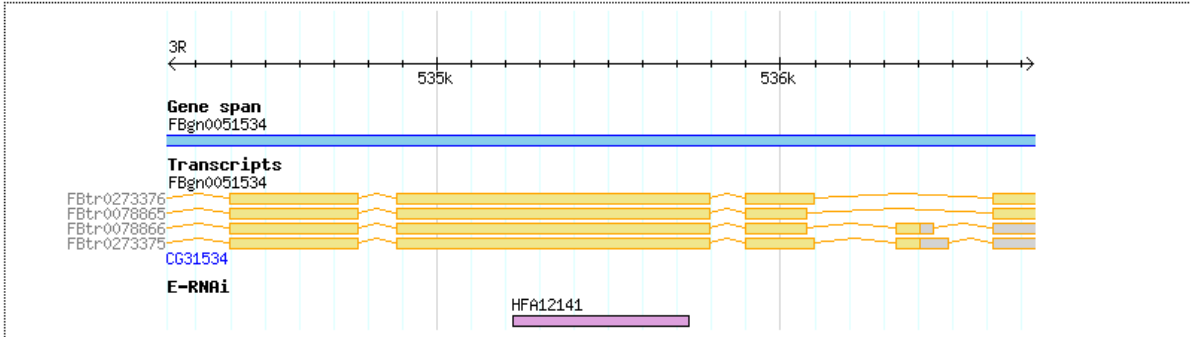
Submit

After submitting the query, E-RNAi shows the queried reagent sequences as genome browser visualization (if they could be mapped).

## Evaluation: sequence selection

Please select RNAi reagents for evaluation.

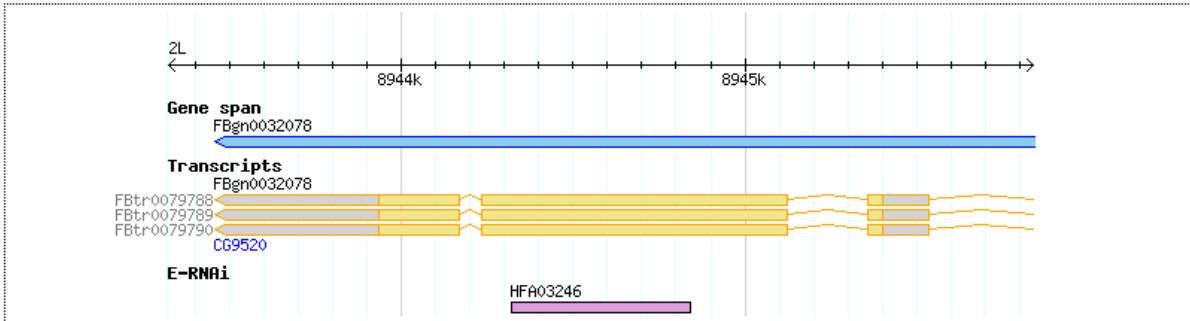
### Query HFA12141



#### >HFA12141

```
AACGCCGCCACAAAGCCATTGAGGGCTATGCAATTGAACGCCAATGGCCATGGCCTGGAGCCAGATTACGCTGTTAGCACGAGGCAGCCCAACCACCG  
GCTCCGTACGGTGGCTCTCTGGTAAAGATTGCTGGAGCACCAATGCCGCCACGGCTCCCGGTCAAGGATATCCCATTCAAGCGCCGACAGCGCCAGCAT  
ACCATCACCAGTCGGCCAAAACCTTAAGCAATATGTCAGAAACACATTGCTCGCTTTGAGTGCCACCCCAAACAAAATACGGGACGGATGGGTGCA  
GGTGACGAGCGGAAGATTATGACAGCCAACAGACCAGCGATGCGGCTTGGCTGGCCGCTCAGCAGCAAAGCGCAAAATCCATGCCTGACTACGGCGGA  
GCACCTTACAATAACAACCACTGGCTACTGCAGGAGGGCGGAGCAGCGACGCATCGAGCAACTTAATCGGCCGATCTATACCAGCCAGCAAGTCGATGGGCA  
AACCGCTGCCCGATT
```

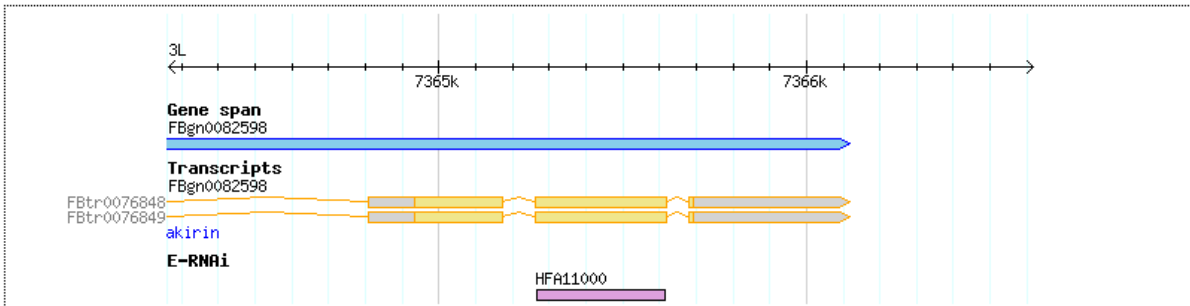
### Query HFA03246



#### >HFA03246

```
AAAGAAGCGACCCCGACCGTTTGTAGTCTCGCGAGTCCCCAGCGAGCAGCTTTACATTTCTGCAGACATTTGCCAATCTCCACGTCTCAGCACCCGAGTTA  
TCCGACTTGCACAGCTTCGGATTGGGAGGGCTTCGACCACAAGCGACGCACAGCCTCCCGGCTGAGAAGTACGCGGACCCGCGGACATGTAGCCTT  
GTTTACGTCACGGCTTGAAGTTCGAGCCGAAGTAGACTGGAGTTTCCGGACTGTACGGATACAGCATGTATCGCATGTTCTCCACTATCGTGTATGTGTC  
ATCGTCAGCCTTCAGGAACCACTCGGCTCGTTGATGTGATGCTCGTAGATGATTTGTAGGCCCTCCTTCGCTTGCCTCATAGGTTGTTGCGACCCCTCG  
CCTACGGGCGAGGCCACTCGTCCAGCTCGTCTGCTTGGCGGAGCTATAAAGATCAGCTGTTGCAACGCTTGCCCCAGGTGCGCTTACGTTGGGCGCG  
CCTTCTTCTGATGGTTGCTCG
```

### Query HFA11000



#### >HFA11000

```
AAAATGGCCGAGAGCTTGTGCAATGAGATCAAGAGACTGCACAAGCGCAAACAGCTGCCGATCACTTCGTGGCCTTGGAAACGCATGCAGGATTCCGGAGT  
CCAGCGGATCGGAGATGGGTCCAGAGAGTCCGCGCCGCCCGGACAGTCCACAGAACCTGATGCCACCGGCGAAAGGCCCTTTCACGTTCAAGCAGGT  
GCAGCTCATTTGCGGAGAGCATGATCAAGGAGCGGAGAAATCAGCTAAGGGAGCGCTACGAGTCCGTGCTGACCACCAAGCTGGCCGAGCAGTACGATGCC  
TTTGCAAGTTACATATGATCAGATACAGCGTCTGCTACGAGGCAGCGCTA
```

Submit Selection

The 'Submit Selection' button links to the [settings page](#).