

**Blast and RNAs parameters.**

<i>RNAs parameters for siRNA</i>		<i>Blast parameters for siRNA</i>	
<i>Parameter</i>	<i>Adjustment</i>	<i>Parameter</i>	<i>Adjustment</i>
<i>Window size</i>	80	<i>Word size</i>	11
<i>16-nt accessibility threshold</i>	0.001002	<i>Expect threshold</i>	10
<i>8-nt accessibility threshold</i>	0.01157	<i>Mismatch penalty</i>	3
<i>Maximum base-pair distance</i>	140	<i>Gap open penalty</i>	5
<i>Gap extension penalty</i>	2	<i>Gap extension penalty</i>	2

The default blast running parameters are inappropriate to performing siRNA off-target dataset search due to their small length, therefore they needed to be modified. RNAs parameters capable of performing target accessibility evaluation for siRNA-mRNA.