

Guide RNA sequences for Ca²⁺ channel screening

ID of guide	sense oligo	antisense oligo
control 1	caccgTTAGTTCGACCACTCCTGAT	aaacATCAGGAGTGGTCGAACTAAc
control 2	caccgGTCCTAGATCCTATCGGGAG	aaacCTCCCGATAGGATCTAGGACc
control 3	caccgAGGACTATCCGCGGGATTAG	aaacCTAATCCCGCGGATAGTCCTc
Orai1 1	caccgGATCGGCCAGAGTTACTCCG	aaacCGGAGTAACTCTGGCCGATCc
Orai1 2	caccgTGGCGATGCATGCGCTCGTG	aaacCACGAGCGCATGCATCGCCAc
Orai1 3	caccgAAGACGATGAGCAACCCTGG	aaacCCAGGGTTGCTCATCGTCTTc
Orai2 1	caccgGGGCATGGATTACCGAGACT	aaacAGTCTCGGTAATCCATGCCCC
Orai2 2	caccgAAGCAGGATGCCCAGAACGG	aaacCCGTTCTGGGCATCCTGCTTc
Orai2 3	caccgACAGTGCCTGCACCGAATGG	aaacCCATTGCGGTGCAGGCACTGTc
Orai3 1	caccgGGTACGTGGCTGAGCCCCGG	aaacCGCGGGCTCAGCCACGTACCc
Orai3 2	caccgAGATACGTGGAGCTTGCCTG	aaacCAGGCAAGCTCCACGTATCTc
Orai3 3	caccgTTGCTCACGGCTTCAATATG	aaacCATATTGAAGCCGTGAGCAAc
Trpc1 1	caccgCATCACTTCGTTGGGCGACG	aaacCGTCGCCAACGAAGTGATGc
Trpc1 2	caccgTCTTACAGGTGGGCTTACGG	aaacCCGTAAGCCCACCTGTAAGAc
Trpc1 3	caccgCTTCTGCTACAAGCGTGGGG	aaacCCCCACGCTTGTAGCAGAAGc
Trpc2 1	caccgCAGTCTCACTATCCTCACCC	aaacGGGTGAGGATAGTGAGACTGc
Trpc2 2	caccgGAGTGACACCAGGGGCAAAG	aaacCTTTGCCCTGGTGTCACTCc
Trpc2 3	caccgAGGGCACATAGATGTTGTTG	aaacCAACAACATCTATGTGCCCTc
Trpc3 1	caccgGCAATGCAAAGACTTCGTAG	aaacCTACGAAGTCTTTGCATTGCc
Trpc3 2	caccgAGGTGCAATCCAATAGCCGA	aaacTCGGCTATTGGATTGCACCTc
Trpc3 3	caccgCCACTGATCAGGTCGTCCGA	aaacTCCGACGACCTGATCAGTGGc
Trpc4 1	caccgAACTCCGTGTCTGATCTAGG	aaacCCTAGATCAGACACGGAGTTc
Trpc4 2	caccgATTAAGTGCATCGACCCCCT	aaacAGGGGGTTCGATGCAGTTAATc
Trpc4 3	caccgGGAGTGGATGATATTACCGT	aaacACGGTAATATCATCCACTCCc
Trpc5 1	caccgGCTCATTGCCTTATCAAGCG	aaacCGCTTGATAAGGCAATGAGCc
Trpc5 2	caccgAGGGAAGCCATCGTACCACA	aaacTGTGGTACGATGGCTTCCCTc
Trpc5 3	caccgTGTAACATAGAGATTTAGG	aaacCCTAAATCTCTATGTTACCAc
Trpc6 1	caccgCAGATGGGAAGATATTGCG	aaacCGCAATATCTTCCCCTCTGc
Trpc6 2	caccgAGGTTATGTACGGATTGTGG	aaacCCACAATCCGTACATAACCTc
Trpc6 3	caccgGGAAGAAGGTTAGCTAATCG	aaacCGATTAGCTAACCTTCTTCCc
Trpc7 1	caccgTGAGTATGGCAACATAACCAG	aaacCTGGTATGTTGCCATACTCAc
Trpc7 2	caccgGGAAGGGCTGTACGCCATTG	aaacCAATGGCGTACAGCCCTTCCc
Trpc7 3	caccgTGAAGAAAGAGAAGTTGGCG	aaacCGCCAAGTTCTCTTTCTTCAc
Trpm1 1	caccgCGGGTACTGGAACCTACTCA	aaacTGAGTAGGTTCCAGTACCCGc
Trpm1 2	caccgGAGATGACAATCCATTCTTG	aaacCAAGAATGGATTGTCATCTC
Trpm1 3	caccgGGTAGAAGGTGGTCCCTAACG	aaacCGTTAGGACCACCTTCTACCc
Trpm2 1	caccgCGTGGCCTGTCAGTGTACCG	aaacCGGTACACTGACAGGCCACGc
Trpm2 2	caccgGTTTCATCTCAGAGCAAACGA	aaacTCGTTTGCTCTGAGATGAACc
Trpm2 3	caccgAGGAAGGTAGTGTGTGCGTG	aaacCACGCACACACTACCTTCTC
Trpm3 1	caccgAGGCACCGCTAATCCCCGT	aaacACGGGGATTAGCCGGTGCCTc
Trpm3 2	caccgTTGGGTTTCGAGTGTACGTGA	aaacTCACGTACACTCGAACCCTAAc
Trpm3 3	caccgACCATAGGTATCGCCCCCTG	aaacCAGGGGGCGATACCTATGGTc
Trpm4 1	caccgGGTAACTGACCACATTACCC	aaacGGGTAATGTGGTCAGTTACCc
Trpm4 2	caccgGCAGAATAGTTATAGTCCAG	aaacCTGGACTATAACTATTCTGCc
Trpm4 3	caccgAGTGATGGCTCGCCTAGAGT	aaacACTCTAGGCGAGCCATCACTc
Trpm5 1	caccgAGAGTGCTACGGCAACAGTG	aaacCACTGTTGCCGTAGCACTCTc
Trpm5 2	caccgCAAGAGTGAATCTTCAATG	aaacCATTGAAGATTTCACTCTTGc
Trpm5 3	caccgGCTGCAGAATCGTTATGAGA	aaacTCTCATAACGATTCTGCAGCc

Trpm6 1	caccgAGAGTGCATACAGTTTAGCG	aaacCGCTAAACTGTATGCACTCTc
Trpm6 2	caccgTGTAACAGTTATGGCCGAG	aaacCTCGGCCATAACTGTTGACAc
Trpm6 3	caccgAGGTCATGATGTAGCGATAG	aaacCTATCGCTACATCATGACCTc
Trpm7 1	caccgTCCAGGGTAATCTCCCCCG	aaacCGGGGGGAGATTACCCTGGAc
Trpm7 2	caccgAAAACATATAGACATACCTCA	aaacTGAGGTATGTCTATAGTTTTc
Trpm7 3	caccgAGATGCTCATCAAATGACGA	aaacTCGTCATTTGATGAGCATCTc
Trpm8 1	caccgCAAAAGCAAGATCCCTTGTG	aaacCACAAGGGATCTTGCTTTTGc
Trpm8 2	caccgCTCACCTTTGTACAGCGCAT	aaacATGCGCTGTACAAAGGTGAGc
Trpm8 3	caccgCCTGATGAAGTACATAGGCG	aaacCGCCTATGTACTTCATCAGGc
Trpv1 1	caccgTAAGCTGAATAACACCGTTG	aaacCAACGGTGTATTTCAGCTTAc
Trpv1 2	caccgAAGCCACATACTCCTTGCGA	aaacTCGCAAGGAGTATGTGGCTTc
Trpv1 3	caccgCCTGCGATCATAGAGCCTTG	aaacCAAGGCTCTATGATCGCAGGc
Trpv2 1	caccgTGCACCGATGAGTTCTACCG	aaacCGGTAGAACTCATCGGTGCAc
Trpv2 2	caccgCCGTGACCGACTCTTCAGTG	aaacCACTGAAGAGTCGGTCACGGc
Trpv2 3	caccgTGACAGCCTTCTCAAATGG	aaacCCATTGGAGAAGGCTGTCAc
Trpv3 1	caccgCGTCAATGCTCACGCCAAGG	aaacCCTTGGCGTGAGCATTGACGc
Trpv3 2	caccgCACCAATGTAGACACAACGA	aaacTCGTTGTGTCTACATTGGTGc
Trpv3 3	caccgAGGATTTGAGCCCAACCCCA	aaacTGGGGTTGGGCTCAAATCCTc
Trpv4 1	caccgTCAGCACATCATCCGACGTG	aaacCACGTCGGATGATGTGCTGAc
Trpv4 2	caccgGGTGTACAACAGCAAGATCG	aaacCGATCTTGCTGTTGTACACCc
Trpv4 3	caccgCTCACAAGAAAGCTGACATG	aaacCATGTCAGCTTTCTTGTGAGc
Trpv5 1	caccgTGTTTGTCAAAGTAGCGAG	aaacCTCGCTACTTTGGACAAACAc
Trpv5 2	caccgAGAAACGGGAAGCGCATCCAG	aaacCTGGATGCGCTTCCGTTTCTc
Trpv5 3	caccgGTGTGAACCTTCGATGGAAGG	aaacCCTTCCATCGAAGTTCACACc
Trpv6 1	caccgTTTGACAGACCATTCTCGG	aaacCCGAGAATGGTCTGTCCAAAc
Trpv6 2	caccgGCTCAAGTTGAAGGATGTG	aaacCACATCCTTCAAACCTGAGCc
Trpv6 3	caccgTGTTACTACCAAGAAACGGG	aaacCCCGTTTCTTGGTAGTAACAc
Trpal 1	caccgTCTGAGCGGTACCTTTACAG	aaacCTGTAAAGGTACCGCTCAGAc
Trpal 2	caccgCAAAAAAGTAGCACCTACCC	aaacGGGTAGGTGCTACTTTTTTGc
Trpal 3	caccgTGGGTACTCAGACCATGA	aaacTCATGGTCTGAGGTACCCAc
Meoln1 1	caccgGACATAGGCATACCGCCCA	aaacTGGGCCGGTATGCCTATGTCCc
Meoln1 2	caccgTTTGACAATAAAGCGCACAG	aaacCTGTGCGCTTTATTGTCAAAc
Meoln1 3	caccgATACCTTTGACATTGATCCA	aaacTGGATCAATGTCAAAGGTATc
Meoln2 1	caccgACGGGATCTGACGTCTGGCT	aaacAGCCAGACGTCAGATCCCGTc
Meoln2 2	caccgTTTCCACGGGATCTGACGTC	aaacGACGTCAGATCCCGTGAAAACc
Meoln2 3	caccgGATGGCGTCTCTCGATTCTG	aaacCAGAATCGAGAGACGCCATCc
Meoln3 1	caccgAAGACCCTAATCACAGACC	aaacGGTCTGTGATTAGGGTCTTc
Meoln3 2	caccgTAAGAGAAGCTGCTCTGACG	aaacCGTCAGAGCAGCTTCTCTTAc
Meoln3 3	caccgACAGATTCTGAAAATCGCGA	aaacTCGCGATTTTCAGAATCTGTc
Pkd1 1	caccgATTCCCGTACCGATATACCT	aaacAGGTATATCGGTACGGGAATc
Pkd1 2	caccgACAGTTGCGTAGATCAACAT	aaacATGTTGATCTACGCAACTGTc
Pkd1 3	caccgAGCTCGCAGACATAACTATG	aaacCATAGTTATGTCTGCGAGCTc
Pkd2 1	caccgGGGATCATTGCGTCGTACAG	aaacCTGTACGACGCAATGATCCCc
Pkd2 2	caccgTGCTGGAGCAGGACGAAAG	aaacCTTTCGTCCTGCTCCAGGCAc
Pkd2 3	caccgTTCGGTTGTCAGCTTGGCTG	aaacCACGCAAGCTGACAACCGAAc
Pkd113 1	caccgGCGACTTCTTCATCGTGCCG	aaacCGGCACGATGAAGAAGTCGCc
Pkd113 2	caccgAAGTGGAGCGTCATTAGGAG	aaacCTCCTAATGACGCTCCACTTc
Pkd113 3	caccgGCTGACGAGCAGCTCCGACA	aaacTGTCGGAGCTGCTCGTCAGCc
Pkd211 1	caccgTCAGTACAATAACATGAACG	aaacCGTTCATGTTATTGTACTGAc
Pkd211 2	caccgCGTGCGCAATGACTCCTGTG	aaacCACAGGAGTCATTGCGCAGCc

Pkd211 3	caccgCACACAGACAGATGTCCACG	aaacCGTGGACATCTGTCTGTGTGc
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shRNA sequences for target genes, referring to Fig. S4e

Trpm5 ccggGGAAGAAGCGAGGCAAGTTTGctcgagCAAACCTGCCTCGCTTCTTCCttttg
Trpm6 ccggGGGCATGTATGAAAATGAAGAactcgagTCTTCATTTCCATACATGCCCTttttg
Trpc1 ccggGCTCATTGCCATTGAGAATGAactcgagTCATTCTCAATGGCAATGAGCttttg
P2rx1 ccggGCTGTCAGCCTTCTTCTTTGAactcgagTCAAAGAAGAAGGCTGACAGCttttg