

Figure S1. Nucleotide sequence of the fluorescently tagged LRRC8A-VFP and LRRC8E-mCherry proteins. The LRRC8 isoform, the fluorescent protein and the linker connecting the two proteins are marked with a different color.

hLRRC8A-linker-VFP

accatgattccggtgacagagctccgctactttgcgacacgcagccagcataccggatcctgaagccgtgggtggatgtgttcagactacatctct
atcgtcatgctgatgattgccgtcttcgggggacgctgcaggtcacccaagacaagatgatctgcctgccttgtaagtgggtcaccaaggactcctgc
aatgattcgttcggggctgggagccctggcccgagccacacccaactccaccattctgccgacccctgacacgggccccacaggcatcaa
gtatgacctggaccggcaccagtagaactacgtggacgtgtgtgtatgagaaccgactgcactggttgccaagtacttccctacctggtgcttctg
cacacgtcatcttctggcctgcagcaacttctggttcaaattccgcgcaccagctcgaagctggagcactttgtctatcctgctgaagtgtctga
ctcgcctggaccagagggccctgtcggagacagtgtgtaggagagcgacccaagccggccttcagcaagatgaatgggtccatggacaaaaa
gtcatcgaccgtcagtgaggacgtggaggccaccgtgcccattgtgcagcggaccaagtacggatcgagcagggtatcgtggaccgtcagagac
ggcgctgtggacaagaaggagggggagcaagccaaggcgctgtttgagaaggtgaagaagttccggaccctatgtggaggagggggacattgtgt
accgcctctacatcgggcagaccatcatcaaggtgatcaagttcatcctcatctgctacacgtctactacgtgcacaacatcaagttcgacgtgg
actgcaccgtggacattgagagcctgacgggctaccgcacctaccgtgtgcccacccctggccacacttcaagatcctggcgctcttctacatca
gcctagtcatcttctacggcctcatctgcatgtatacactgtgtgtagctacggcgctccctcaagaagtactcgtttgagtcgatccgtgaggagag
cagctacagcgacatccccagctcaagaacgacttcgcttcatgctgcacctcattgaccaatacgaccgctctactccaagcgcttcgccgtcttc
ctgtcggaggtgagtgagaacaagctgcggcagctgaacctcaacaacgagtgagcgtggacaagctccggcagcggctcaccaagaacgcgca
ggacaagctggagctgcacctgttcatgctcagtggtcatccctgacactgtgtttgacctgggtggagctggaggtcctaagctggagctgatccccga
cgtgaccatcccggccagcattgccagctcacgggctcaaggagctgtggcttaccacacagcggccaagattgaagcgcccgctggccttcc
tgcgcgagaacctgcggcgctgcacatcaagttcacggacatcaaggagatccgctgtggatctatagcctgaagacactggaggagctgcacct
gacgggcaacctgagcgggagaacaacgctacatcgtcatcgacgggctcggggagctcaaacgctcaaggtgtcgtggctcaaggaacct
aagcaagctgccacaggtggtcagatgtggcgctgcacctgcagaagctgtccatcaacaatgagggcaccaagctcatcgtcctcaacagcctc
aagaagatggcgaaacctgactgagctggagctgatccgtgtgacctggagcgcacccccactccatcttcagcctccacaacctgcaggagattga
cctcaaggacaacaacctcaagaccatcgaggagatcatcagcttcagcacctgcaccgcctcactgaccttaagctgtgtgtacaaccacatgcct
acatccccatccagatcggaacctcaccaacctggagcgctctacctaaccgcaacaagatcgagaagatccccaccagctcttctactgccgc
aagctgcgctacctggacctcagccacaacaacctgaccttctcctgccgacatcgccctcctgcagaacctccagaacctgacctcacggccaa
ccggatcgagacgctccctccggagcttccagtccgggaagctcggggcctgcacctgggcaacaacgtgctgcagtcactgcctccagggtgg
gcgagctgaccaacctgacgcagatcgagctcggggcaaccggctggagtgctgctgtggagctggcgagtgccactgctcaagcgagcg
gcttggtgtggaggaggacctgttaacacactgccacccgaggtgaaggagcggctgtggagggtgacaaggagcaggccacaactttgtatac
aaaagttgtgatgagtaaaggagaagaacttttactggagttgtccaattctgttgaattagatggtgatgttaatgggcacaaattttctgcagt
ggagaggtgaagggtgatgaacatacggaacttacccttaaattgattgactactggaaaactacctgttccatggccaacactgtgactact
ttgggttatggtctaattgtctttagatataccagatcatatgaaacggcatgacttttcaagagtccatgcccgaaggttatgtacaggaaaga
actatattttcaaagatgacgggaactacaagacacgtgctgaagtcaagtttgaaggtgataccctgttaatagaatcgagttaaaaggtattgat
tttaagaagatggaacattcttgacacaaattggaatacaactataactcacacaatgtatacatcactgcagacaaaacaaagaatggaatca
aagctaactcaaaattagacacaacattgaagatggaggtgttcaactagcagaccattatcaaaaaatactccaattggcgatggccctgtcctt
taccagacaaccattacctgtcctatcaatctgccctttcgaaagatcccaacgaaaagagagaccacatggtccttctgagtttgaacagctgctg
ggattacacatggcatggatgaactatacaaatag

LRRC8E-linker-mCh

accatgatcccagtgccgagttcaagcagttcacggaacagcagcctgcgttaaggtgtcacaacctgggtgggacgtgctggccgagtaacctcac
cgtggccatgctcatgattgggtctttggctgcacctccaggtgacacaggacaagatcatctgtctaccaatcatgagctccaggagaacttatc
agaggccccgtgccagcaattgtgcctcgggggatccctgagcagattggggccctgcaggaggttaaaggccttaagaacaatttgacctgcag
caatacagctttattaaccagctgtgttatgagacggccctgcactggtatgccaagtacttccctacctcgtggtcattcacacactcatcttcatggt

ctgcaccagtttctggttcaagttccctggcaccagctccaagattgaacacttcatctccatcctgggcaagtgttctgactctccatggaccaccagg
gccctatccgaggtctccggggagaaccagaagggcccagcagccaccgaacgggctgcggccaccatagtggccatggcagggaccgggcccggg
gaaggcaggggaggggtgagaaggagaaagtgtggcggaaccggagaaggtggtagccagcctccagttgtcacctgttgacaagaaggagg
gtgagcaagccaaagccctgtttgagaaggtgaagaagtccgcatgcacgtggaagagggcgacatcctgtacaccatgtacatccgacagacggt
gctgaaagtgtgtaagttcctggccatcctggctacaacctgggtctatgtggagaagatcagtttctggtggcctgtaggggtggagacgtcagaggt
cacgggtacgccagcttctgtgcaaccacaccaaggcccaccttctccaagctggccttctgttacatctccttgtgtgcatctacggacttacct
gcatctacacgctctactggctcttcaccggcccctcaaggagtactccttccgttccgtgcgggaggagactggcatgggggacattcctgacgtca
agaatgacttcgccttcatgtgacacctcatcgatcagtagactccctctactccaagcgcttcgcttctcctgtccgaggtcagcgaagccgtct
aaagcagctcaatctcaaccagagtggacccccgagaagcttgacagaagctgcagcgaatgccggggccggctggagctggccctctgcat
gtgcccgggtctgcccacaccgtctttgagctcagtgaggtggagtcactcaggctggaggccatctgcgatatcaccttccccccggggctgtcaca
gctggtgcaactgcaggagctcagcttgtccactgcccgcaggctacccttctccttgaggcttctcctgcgggaccacctgaaggtgatgcgctc
aatgcgaggagctccgcgaggtgccgtttgggtgtttgggtgcggggcttgaggagctgcacctggaggggcttttccccaggagctagctcg
ggcagccaccctggagagcctccgggagctgaagcagctcaaggtgtgtccctccggagcaacgccgggaaggtgccagccagtgtagccagctt
gctggccacctgcagaggctcagcctgcacaacgatggggcccgtctggttgccctgaacagcctcaagaagctggcggcattgcgggagctggagc
tggtggcctgcgggctggagcgcatccccatgcagtgttcagcctgggtgcgctgcaggaacttgacctcaaggacaaccacctgcgctccatcgag
gaaatcctcagcttccagcactgccggaagctggtcacgctcaggctgtggcacaaccagatcgctacgtccctgagcacgtgcggaagctcagga
gcctggagcagctctacctcagctacaacaagctggagaccctgccctccagctcggcctgtgctcaggcctccgtctgctggatgtgtcccacaatg
ggctacactccctgccaccgaggtgggcctcctgcagaacctacagcacctggcctctcctacaatgcctggaggccctgccgaagagctcttct
tctgccgaagctgcggacgttgcttctgggcgacaaccagctgagccagctctgccccacgtgggtgccctcagagccctcagccgctggagctc
aaaggcaaccgcttagaggcgctgcagaagaacttggaactgtggggggctcaagaaggcggggctcctggtggaagacacgctttaccagggt
ctgccggcagaagtgccggacaagatggaggaggaaacaactttgtatacaaaagtgtgatggtgagcaagggcgaggaggataacatggccat
catcaaggagttcatgcgcttcaaggtgcacatggagggtccgtgaacggccacgagttcgagatcgagggcgaggcgaggggccgcccctacga
gggcacccagaccgccaagctgaaggtgaccaagggtggccccctgcccttcgctgggacatcctgtccctcagttcatgtacggctccaaggcct
acgtgaagcaccccgccgacatccccgactacttgaagctgtccttccccgagggcttcaagtgggagcgcgtgatgaacttcgaggacggcggcgtg
gtgaccgtgacccaggactcctcctgcaggacggcgagttcatctacaaggtgaagctgcgcggcaccaacttccctccgacggccccgtaatgca
gaagaagaccatgggctgggaggcctcctccgagcggatgtaccccaggacggcgccctgaaggcgagatcaagcagaggctgaagctgaagg
acggcggccactacgacgtgaggtcaagaccacctacaaggccaagaagcccgtgcagctgcccggcgctacaacgtcaacatcaagttggaca
tcacctcccacaacgaggactacacctcgtggaacagtacgaacgcgcccaggggccactccaccggcgggcatggacgagctgtacaagtag