

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pcDNA3.1 Flag YFP hNKCC1 (NT17)

RRID:Addgene_49085

Type: Plasmid

Proper Citation

RRID:Addgene_49085

Plasmid Information

URL: <http://www.addgene.org/49085>

Proper Citation: RRID:Addgene_49085

Insert Name: human NKCC1 (synthetic)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24339991](#)

Vector Backbone Description: Backbone Marker:Life Technologies; Backbone Size:5316; Vector Backbone:pcDNA3.1 neo; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Synthetic cDNA encoding full length human NKCC1, with 29 silent restriction sites in NKCC1 coding region This plasmid has also been described in Monette et al., J Biol Chem. 2014 Jan 22 (<https://www.ncbi.nlm.nih.gov/pubmed/24451383>)

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Relevant Mutation: 262 silent mutations from native hNKCC1

Record Creation Time: 20220422T222253+0000

Record Last Update: 20260815T081556+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1 Flag YFP hNKCC1 (NT17).

No alerts have been found for pcDNA3.1 Flag YFP hNKCC1 (NT17).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Monette MY, et al. (2014) Molecular motions involved in Na-K-Cl cotransporter-mediated ion transport and transporter activation revealed by internal cross-linking between transmembrane domains 10 and 11/12. The Journal of biological chemistry, 289(11), 7569.