

## Product datasheet for **RC216145L1V**

### SLC12A1 (NM\_000338) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SLC12A1 (NM_000338) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SLC12A1
Synonyms:	BSC1; NKCC2
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000338
ORF Size:	3297 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216145).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_000338.1</a> , <a href="#">NP_000329.1</a>
RefSeq Size:	3362 bp
RefSeq ORF:	3300 bp
Locus ID:	6557
UniProt ID:	<a href="#">Q13621</a>
Cytogenetics:	15q21.1
Protein Families:	Druggable Genome, Transmembrane
MW:	121.3 kDa



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**Gene Summary:**

This gene encodes a kidney-specific sodium-potassium-chloride cotransporter that is expressed on the luminal membrane of renal epithelial cells of the thick ascending limb of Henle's loop and the macula densa. It plays a key role in concentrating urine and accounts for most of the NaCl resorption. It is sensitive to such diuretics as furosemide and bumetanide. Some Bartter-like syndromes result from defects in this gene. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their biological validity in humans has not been experimentally proven. [provided by RefSeq, May 2010]