

Title (en)  
OLIGONUCLEOTIDES AND VIRAL UNTRANSLATED REGION (UTR) FOR INCREASING EXPRESSION OF TARGET GENES AND PROTEINS

Title (de)  
OLIGONUKLEOTIDE UND VIRALE UNTRANSLATIERTE REGION (UTR) ZUR ERHÖHUNG DER EXPRESSION VON ZIELGENEN UND PROTEINEN

Title (fr)  
OLIGONUCLÉOTIDES ET RÉGION NON TRADUITE (UTR) VIRALE POUR AUGMENTER L'EXPRESSION DE GÈNES ET DE PROTÉINES CIBLES

Publication  
**EP 4366767 A2 20240515 (EN)**

Application  
**EP 22838408 A 20220707**

Priority  
• US 202163219587 P 20210708  
• US 202163219596 P 20210708  
• US 202163219599 P 20210708  
• US 202263332378 P 20220419  
• US 2022036367 W 20220707

Abstract (en)  
[origin: WO2023283342A2] A novel, small (21-mer oligonucleotide) and unique cz's-regulatory coding motif can greatly enhance the production of a variety of different types of proteins ranging from viral transcripts/proteins, endogenous gene products, vaccines, antibodies to engineered recombinant proteins in mammalian cells. The combination of novel peptide tag(s) having specified short amino acid sequences or derivatives thereof and the untranslated region (UTR) of viruses (snUTR) enhanced production of tagged proteins, including viral transcripts/proteins, endogenous gene products, vaccine, antibody, engineered recombinant proteins in a cell both in vitro, ex vivo and in vivo.

IPC 8 full level  
**A61K 39/215** (2006.01); **C07H 21/02** (2006.01)

CPC (source: EP US)  
**A61K 39/12** (2013.01 - EP); **C07K 14/005** (2013.01 - EP); **C07K 16/1003** (2023.08 - EP US); **C12N 15/86** (2013.01 - EP); **C12P 21/02** (2013.01 - EP); **C12Q 1/6897** (2013.01 - EP US); **A61K 2039/53** (2013.01 - EP); **C07K 2317/14** (2013.01 - EP); **C07K 2319/35** (2013.01 - EP); **C12N 2740/16043** (2013.01 - EP); **C12N 2770/20022** (2013.01 - EP); **C12N 2770/20034** (2013.01 - EP); **C12N 2830/15** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2023283342 A2 20230112**; **WO 2023283342 A3 20231005**; CA 3226284 A1 20230112; EP 4366767 A2 20240515

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**US 2022036367 W 20220707**; CA 3226284 A 20220707; EP 22838408 A 20220707