

Product datasheet for **SC321785**

Bonzo (CXCR6) (NM_006564) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bonzo (CXCR6) (NM_006564) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bonzo
Synonyms:	BONZO; CD186; CDw186; STRL33; TYMSTR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006564.1
 CATCTCTGCTGGTGTTCATCAGAACAGACACCATGGCAGAGCATGATTACCATGAAGACT
 ATGGGTTCCAGCAGTTTCAATGACAGCAGCCAGGAGGAGCATCAAGACTTCCTGCAGTTCA
 GCAAGGCTTTTCTGCCCTGCATGTACCTGGTGGTGTGGTCTGTGGTCTGGTGGGAACT
 CTCTGGTGCTGGTCATATCCATCTTCTACCATAAGTTGCAGAGCCTGACGGATGTGTTCC
 TGGTGAACCTACCCCTGGCTGACCTGGTGTGGTCTGCACTCTGCCCTTCTGGGCCTATG
 CAGGCATCCATGAATGGGTGTTGGCCAGGTCATGTGCAAGAGCCTACTGGGCATCTACA
 CTATTAACCTTCTACACGTCCATGCTCATCTCACCTGCATCACTGTGGATCGTTTCATTG
 TAGTGTTAAGGCCACCAAGGCCTACAACCAGCAAGCCAAGAGGATGACCTGGGGCAAGG
 TCACCAGCTTGCATCTGGGTGATATCCCTGCTGGTTTCCTTGCCTCAAAATTATCTATG
 GCAATGTCTTTAATCTCGACAAGCTCATATGTGGTTACCATGACGAGGCAATTTCCACTG
 TGGTCTTCCACCCAGATGACACTGGGGTCTTCTTGGCCACTGCTACCATGATTGTCT
 GCTATTCACTATAATCAAAACTGCTTCATGCTGGAGGCTTCCAGAAGCACAGATCTC
 TAAAGATCATCTTCTGGTGTGGCTGTGTTCTGCTGACCCAGATGCCCTTCAACTCA
 TGAAGTTCATCCGAGCACACACTGGGAATACTATGCCATGACCAGCTTCTACTACCA
 TCATGGTGACAGAGGCCATCGCATACCTGAGGGCCTGCCTAACCTGTGCTCTATGCTT
 TTGTCAGCCTGAAGTTTCGAAAGAAGCTTCTGAAACTTGTGAAGGACATTGGTTGCCTCC
 CTTACCTTGGGGTCTCACATCAATGAAATCTTCTGAGGACAATCCAAGACTTTTTCTG
 CCTCCACAATGTGGAGGCCACCAGCATGTTCCAGTTATAGGCCTTGGCAGGGTTTCGAG
 AAGCTGCTCTGGAATTTGCAAGGCATGGCTGTGCCCTCTGATGTGGTGAGGCAGGCTTT
 GTTTATAGCTTGGCATTCTCATGGAGAAGTTATCAGACACTCTGGCTGGTTTGGAAATGC
 TTCTTCTCAGGCATGAACATGACTGTTCTTCTTGAACACTCATGCTGAAAGCCCAAG
 TAGGGGGTCTAAAATTTTAAGGACTTTCCTTCCATCTCAAGAATGCTGAAACCAA
 GGGGGATGACATGTGACTCCTATGATCTCAGGTTCTCCTTGATTGGGACTGGGGCTGAAG
 GTTGAAGAGGTGAGCACGGCCAACAAAGCTGTTGATGGTGGTGGCACACTGGGTGCCCA
 AGCTCAGAAGGCTCTTCTGACTACTGGGCAAGAGTGTAGATCAGAGCAGCAGTAAAAAC
 AAGTGCTGGCACCACCAGGCACCTCACAGAAATGAGATCAGGCTCTGCCTCACCTGGGG
 CTTGACTTTTGTATAGGTAGATGTTTCCAGTTGCTTTGATTAATCCAGAATAACTAGCACC
 AGGGACTATGAATGGGCAAAACTGAATTATAAGAGGCTGATAATCCAGTGGTCCATGGA
 ATGCTTAAAAATGTGCAAAACAGCGTTAAGACTGTAATGAATCTAAGCAGCATTCTG
 AAGTGGACTCTTTGGTGGCTTTGCATTTAAAAATGAAATTTTCCATGTCTGCCACACA
 AACGTATGTAATGTATATACCCACACACATACACACATATGTCATATATTAAGCATA
 TGAATTTTCATAGCTAAGAAATAAACTGTTAAAGTCTCAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_006564

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_006564.1, NP_006555.1</u>
RefSeq Size:	1953 bp
RefSeq ORF:	1029 bp
Locus ID:	10663
UniProt ID:	<u>O00574</u>
Cytogenetics:	3p21.31
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a G protein-coupled receptor with seven transmembrane domains that belongs to the CXC chemokine receptor family. This family also includes CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, and CXCR7. This gene, which maps to the chemokine receptor gene cluster, is expressed in several T lymphocyte subsets and bone marrow stromal cells. The encoded protein and its exclusive ligand, chemokine ligand 16 (CCL16), are part of a signalling pathway that regulates T lymphocyte migration to various peripheral tissues (the liver, spleen red pulp, intestine, lungs, and skin) and promotes cell-cell interaction with dendritic cells and fibroblastic reticular cells. CXCR6/CCL16 also controls the localization of resident memory T lymphocytes to different compartments of the lung and maintains airway resident memory T lymphocytes, which are an important first line of defense against respiratory pathogens. The encoded protein serves as an entry coreceptor used by HIV-1 and SIV to enter target cells, in conjunction with CD4. [provided by RefSeq, Aug 2020]</p>