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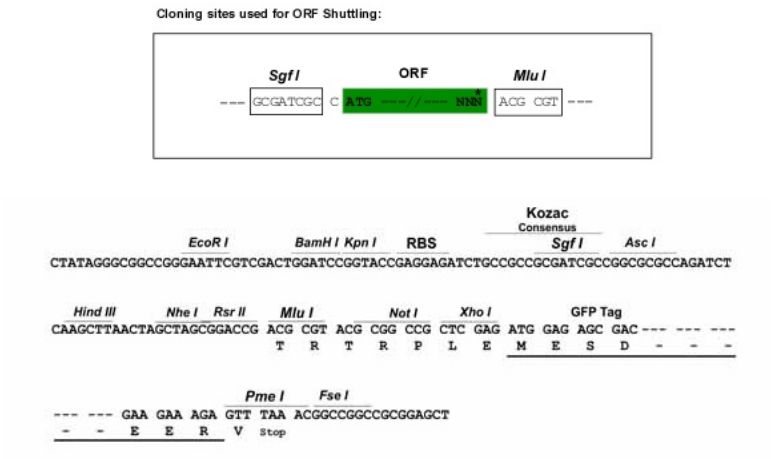
# Product datasheet for RG226839

## XPC (NM_001145769) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | XPC (NM_001145769) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | XPC |
| **Synonyms:** | RAD4; XP3; XPCC |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Restriction Sites:** | SgfI-MluI |
| **Cloning Scheme:** | |




| | |
|---|---|
| **ACCN:** | NM_001145769 |
| **ORF Size:** | 2709 bp |

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| | |
|---|---|
| **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. More info |
| **OTI Annotation:** | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NM_001145769.1, NP_001139241.1 |
| **RefSeq Size:** | 3618 bp |
| **RefSeq ORF:** | 2712 bp |
| **Locus ID:** | 7508 |
| **Cytogenetics:** | 3p25.1 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Nucleotide excision repair |
| **Gene Summary:** | The protein encoded by this gene is a key component of the XPC complex, which plays an important role in the early steps of global genome nucleotide excision repair (NER). The encoded protein is important for damage sensing and DNA binding, and shows a preference for single-stranded DNA. Mutations in this gene or some other NER components can result in Xeroderma pigmentosum, a rare autosomal recessive disorder characterized by increased sensitivity to sunlight with the development of carcinomas at an early age. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2017] |

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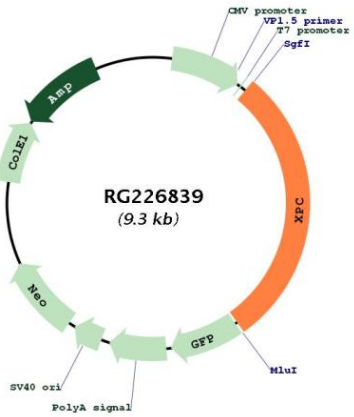
## Product images:




Circular map for RG226839

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