

MGC premier The best value for ready-to-express cDNA clones
Enabling Discovery Across the Genome

MGC premier® cDNA and ORFs

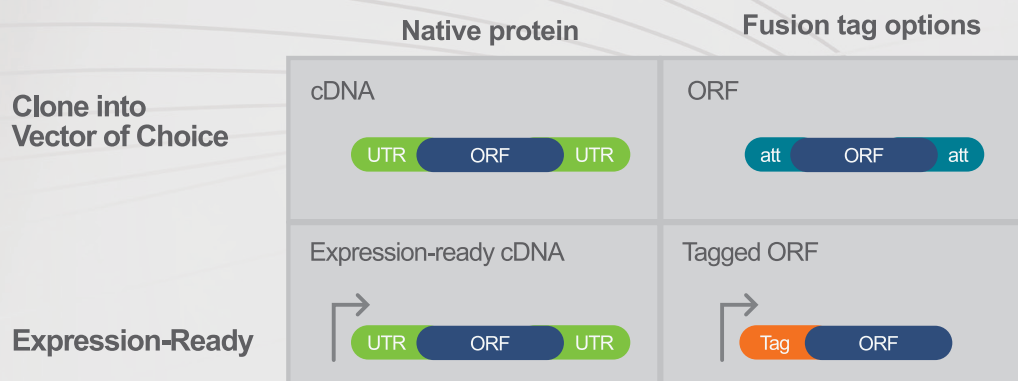
Highest quality, comprehensive coverage, cost effective = Best Value



www.transomic.com

MGC premier® cDNA and ORFs

Choose from Full-Length, Sequence Verified cDNA, Entry ORFs and Tagged ORFs



Available Options:

- Mutagenesis
- Vector Development
- Lentiviral Cloning and Packaging

	Full-length cDNA clone	pCS6 Expression-Ready cDNA	pTCP/TCN Expression-Ready cDNA	Entry ORF	Tagged ORF	Lentiviral ORF	Custom Cloning
Fully Sequenced	X	X	X	X	X	X	X
Quick turnaround	X	X		X		X	
Easy to transfer	X			X			
Expression-ready		X	X		X	X	X
Fluorescent marker						X	X
Lentiviral Packaging					X	X	X
Species	H, M, R, B, X, Z	H, M, R	H, M, R	H, M, Z	H, M, R	H	H, M, R

H=Human, M=Mouse, R= Rat, B=Bovine, X=Xenopus, Z=Zebrafish



Largest Collection of Pre-made, Full-Length cDNA and ORFs

transOMIC technologies provides you with the highest sequence quality and confidence when purchasing pre-made, full-length cDNA and ORF clones. All inserts have been rigorously sequenced and are backed by a 100% guarantee to be an exact match to the published sequence. (MGC Project Team, 2009; Yang et al, 2011).

MGC premier cDNA

cDNA clones include the open reading frame and untranslated regions (UTR)

- ☐ *Sequence guaranteed*
- ☐ *Ideal for native protein expression*
- ☐ *Human, mouse, rat, bovine, Xenopus and zebrafish genomes represented*

Clonal Isolation and End-Sequence Option

Want to confirm the identity of your cDNA before shipping? We can streak isolate a colony and end sequence it before delivery. Select the end sequenced format when choosing your cDNA from *FETCH my gene*®. This risk-free option ensures you start with a verified clonal culture.

MGC premier ORFs

Open Reading Frame (ORF) clones contain only the protein coding sequence allowing for the addition of fusion tags. MGC premier entry ORF collections represent human, mouse and zebrafish genes.

- ☐ *Gateway adapted entry vectors - easy to transfer*
- ☐ *Stop codon option - N or C-terminal fusion tags*
- ☐ *End sequenced - clone confirmation prior to shipping*




Available as individual clones, sets or entire genome

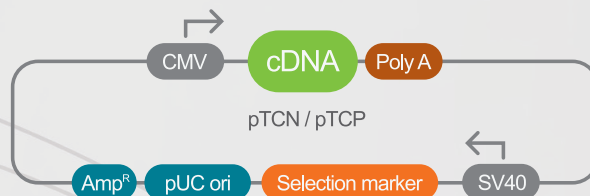
Use  **FETCH my gene**® to find cDNA or ORF clones representing your gene of interest

Guaranteed Sequence and Expression

MGC *premier* Expression-Ready cDNA

Best option for native protein expression

-  Fully sequenced - better confidence in your results
-  Strong promoter - robust expression
-  Choice of selectable marker - transient or stable expression



pTCN/pTCP vector schematic

cDNA insert completely
resequenced after cloning
(pTCN and pTCP)

	Delivery Time	Mammalian Selectable Marker
pCS6	2 days	None
pTCN	4-6 weeks	Neomycin
pTCP	4-6 weeks	Puromycin

Gene Family and Pathway Focused Sets - cDNA and ORFs

Arrayed sets representing popular gene families and pathways are available for cDNA, entry ORFs and lentiviral ORFs. The table lists the available focused sets. Contact us for gene and clone information.

Apoptosis
Breast Cancer 1000
Cell adhesion
Cell cycle
Cytokine receptors
Cytokines
Cytoskeleton
Deubiquitinases (DUB)
Epigenetics-related gene set
Extracellular matrix
GPCRs
Helicases
Ion Channels
Kinases

Membrane transport
Metastasis
Nuclear hormone receptor
Phosphatases
Protease
Transcription factor
Ubiquitin ligases
Insulin signaling
Lymphocyte activation
JAK/STAT pathway
Response to DNA damage
B cell activation
T cell activation
p53 pathway

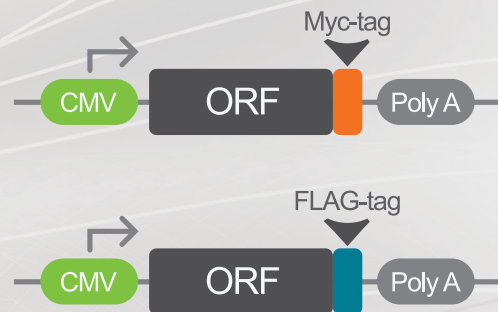
Don't see your gene family
or pathway of interest?
Contact info@transomic.com
for custom set options.

Choice of Fusion Tags - Guaranteed Expression

MGC premier Tagged ORFs

Express over 40,000 human, mouse and rat proteins with a choice of fusion tags- Myc or FLAG®. All ORFs are fully sequenced and guaranteed to express.

- Expression-ready with validated tagged vectors
- Choice of fusion tags - added functionality
- Guaranteed expression- increase confidence in your results
- Insert completely resequenced before delivery



Vector schematic shows a C-terminal tag ORF. MGC premier Tagged ORF clones are available in N or C-terminal fusions.

Lentiviral Tagged ORFs

Representing the human genome, this collection is available as V5 tagged ORFs in a lentiviral expression vector .

- Transfection or transduction delivery options
- Bacterial glycerol stock or viral particles format
- Express ORFs in primary and non-dividing cells
- Expression and sequence guaranteed



Lentiviral ORFs
available as
viral particles

Available as individual clones, gene family focused sets or entire genome

Use  **FETCH my gene®** to find cDNA or ORF clones representing your gene of interest

(Peptide sequence of the DDK tag is DYKDDDDK. FLAG® is a registered trademark of Sigma-Aldrich)

Custom Solutions - Mutagenesis, Lentiviral Cloning and Packaging

Mutagenesis

Select from over 100,000 cDNA and ORF clones to create splice variants, modify domains or alter sequences to create mutants.

- ☐ Includes insertions, deletions and substitutions
- ☐ Best value for sequence variants
- ☐ Choice of expression vector including lentiviral vector option

Lentiviral Cloning and Packaging

Have any cDNA or ORF insert cloned into a lentiviral vector:

- ☐ Choice of selection marker
- ☐ Inducible or constitutive expression
- ☐ Available as bacterial glycerol stocks or ready-to-transduce lentiviral particles



Standard deliverable includes $>5 \times 10^6$ - 1×10^7 TU/ml functional titer at volumes of 100-300 μ l.

Note: Size and sequence of insert can impact titers.

Find more details and order custom clones at www.transomic.com

Use **FETCH my gene**[®] to find cDNA or ORF clones for your gene of interest.

FETCH my gene[®] search tool is designed to help you easily find clones for your gene of interest and confirm your results using the gene information provided. Use gene accession, gene symbol or gene ID to begin your gene search.

1. Search

Input your search term into **FETCH my gene**[®].

2. Choose product type

Quickly filter product type using tabs.

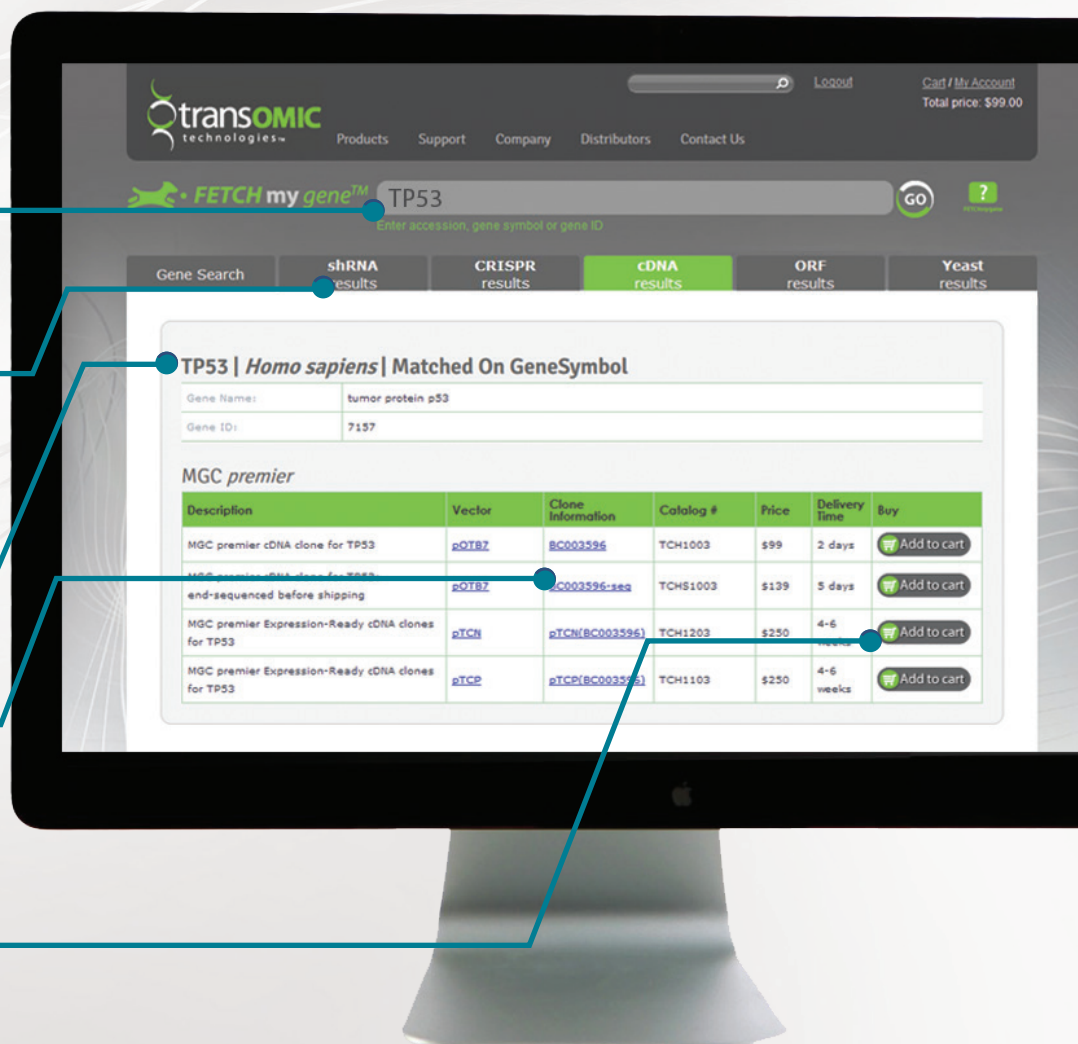
3. Confirm gene and product

Validate your gene of interest with additional gene information provided.

Clone specific information provided through link to clone details page.

4. Add to cart

Click add to cart to purchase or continue shopping.



Visit www.transomic.com for more details.

References: MGC Project Team, 2009. The completion of the Mammalian Gene Collection (MGC). *Genome Res.* 19: 2324-2333 and Supplemental Research Data. A public genome-scale lentiviral expression library of human ORFs. *Nat Methods.* 2011 Jun 26;8(8):659-61

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