

Materials List for:

# Characterization of Molecular Mechanisms of *In vivo* UVR Induced Cataract

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URL: <https://www.jove.com/video/4016>

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## Materials

Name	Company	Catalog Number	Comments
Name of the reagent	Company	Catalogue number	Comments (optional)
Ketalar	Pfizer	150086	50 mg/ml
Rompun	Bayer	022545	20 mg/ml
Oculentum Simplex	Apoteket, Sweden	336164	5 g
Mydriacyl	Alcon	00352	10 mg/ml
Balanced salt solution	Alcon	0007950055	
3.5 ul β-mercaptoethanol			
NucleoSpin RNA II total RNA isolation kit	Macherey-Nagel GmbH&Co, Duren, Germany	740955.50	
p53 DNA specific primers	biomers.net GmbH	Custom made	
Taq DNA polymerase, dNTPack	Roche	04 728 866 001	
Agarose	Sigma	A5093	
Ethidium bromide solution 0.5 mg/ml	Sigma	E1385	
Nano-Drop ND-1000 spectrophotometer	NanoDrop Products		
1 <sup>st</sup> Strand cDNA synthesis kit for RT-PCR (AMV)	Roche Diagnostics GmbH	11 483 188 001	
iCycler MyiQ Single Color Real Time PCR detection system	Bio-Rad Laboratories		
96-well plate	Sarstedt	72.1979.202	
TaqMan Gene Expression Master Mix	Applied Biosystems	4369016	
TaqMan Gene Expression Assay for caspase 3	Applied Biosystems	Rn00563902_m1	
TaqMan Gene Expression Assay for 18s	Applied Biosystems	Hs99999901_s1	
MyiQ software	Bio-Rad Laboratories		
Cleaved caspase-3 (Asp175)	Cell signaling technology	9661	
Anti rabbit IgG	Abcam	Ab6798	
Sucrose	Sigma Aldrich	84097	
Vectashield	Vector Laboratories		
Universal Microscope Axioplan 2 Imaging	Carl Zeiss		
Paraformaldehyde	Sigma Aldrich	441244	
TBE buffer 10x	Promega	V4251	