

Certificate of Analysis
LanthaScreen® TR-FRET AR Coactivator Assay, 800 X 20 µL



Part Number: A15878
Lot Number: 3133714
Immediate Storage: -80°C
Shipping Conditions: dry ice

5781 Van Allen Way
Carlsbad, CA 92008
Phone: 760.603.7200
www.thermofisher.com

Components:

Description	Composition	Quantity	Part Number	Lot Number
AR - LBD (GST)	Proprietary Buffer (pH 7.5) containing protein stabilizing agents and Glycerol.	100 µg	A15676*	2753687C
Fluorescein-D11-FxxLF Coactivator Peptide	100 µM Fluorescein-VESGSSRFMQLFMANDLLT in 50 mM HEPES (pH 7.5), 2506 Da.	100 µL	PV4382	2319552E
LanthaScreen® Tb-anti-GST (Goat) Antibody	10 mM HEPES 137 mM NaCl, 2.7 mM KCl (HEPES buffered saline).	25 µg	PV3550*	2845081C
TR-FRET Coregulator Buffer A	Proprietary Buffer (pH 7.5)	2 × 25 mL	PV4384	2678045A
DTT Solution	1M DTT in water.	1 mL	P2325	2488866F

\*See individual COA

Storage and Handling: The performance of this product is guaranteed for 6 months from the date of purchase if stored and handled properly.

Description	Storage and Handling
AR - LBD (GST)	If properly stored in its original container at -80°C, this product is guaranteed for 6 months from date of purchase. Mix gently, do not vortex.
Fluorescein-D11-FxxLF Coactivator Peptide	-20°C. Vortex prior to each use.
LanthaScreen® Tb-anti-GST (Goat) Antibody	If properly stored at -20°C, this product is guaranteed for 6 months from date of purchase.
TR-FRET Coregulator Buffer A	4°C. Mix prior to use.
DTT Solution	-20°C

QUALITY ASSURANCE

Functional Testing:

Kit components are functionally tested for performance in the assay using a titration of a known agonist or antagonist.

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# Certificate of Analysis

## AR - LBD (GST), 100 µg

Androgen Receptor Ligand Binding Domain, GSTtagged

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**Part Number:** A15676

**Lot Number:** 2753687C

**Immediate Storage:** -80°C

**Shipping Conditions:** dry ice

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### Description:

Recombinant Rat Androgen Receptor ligand binding domain (amino acids 606-902, NP\_036634), GST-tagged, expressed in insect cells.

### Concentration:

0.54 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **8,390 nM**.

Note: As of November 2012 we no longer perform radioligand binding assays to determine the active nM concentration and specific activity. The reported nM concentration is based on the Bradford protein assay and calculated using the molecular weight.

### Assay Concentration(s):

**406 nM** AR - LBD (GST) is the final concentration recommended for the PolarScreen™ AR Competitor Assay Kit, Green (A15880).

**28 nM** AR - LBD (GST) is the final concentration recommended for the LanthaScreen™ TR-FRET AR Coactivator Assay (A15878).

### Aliases:

NR3C4, dihydrotestosterone receptor (DHTR)

### Storage and Handling:

If properly stored in its original container at -80°C, this product is guaranteed for 6 months from date of purchase. **Mix gently, do not vortex.**

Do **NOT** make single use aliquots.

Stable through at least 8 freeze-thaw cycles. Store on ice when thawed and refreeze promptly after use.

### Storage Buffer:

Proprietary Buffer (pH 7.5) containing protein stabilizing agents and glycerol.

## QUALITY ASSURANCE

### Functional Testing:

The performance of each lot of AR - LBD (GST) is confirmed in the following assay(s):

LanthaScreen™ TR-FRET AR Coactivator Assay (A15878). The ligand dihydrotestosterone (DHT) was shown to recruit Fluorescein-D11FxxLF peptide (PV4382) VESGSSRFMQLFMANDLLT to bind with AR - LBD (GST).

PolarScreen™ AR Competitor Assay Kit, Green (A15880). The ligand dihydrotestosterone (DHT) was shown to displace Fluormone AL Green from AR - LBD (GST).

### Gel Information for AR - LBD (GST)

**Page Description:** The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex™ gels (Catalog #: EC6025BOX).

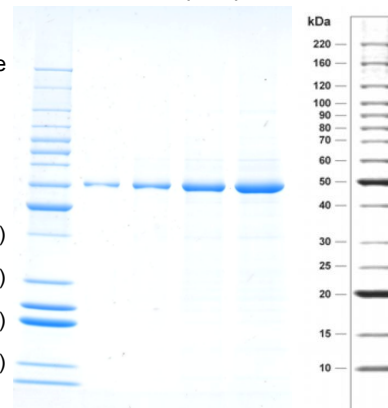
**Lane 1:** Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

**Lane 2:** 0.3 µg AR - LBD (GST)

**Lane 3:** 0.6 µg AR - LBD (GST)

**Lane 4:** 1.5 µg AR - LBD (GST)

**Lane 5:** 3.0 µg AR - LBD (GST)



### Purity:

90% as determined by a SDS-PAGE gel stained with SimplyBlue™ SafeStain.

### Molecular Weight:

64.4 kDa. Calculated from the protein sequence(s).

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP\_036634

1	-----MS	PILGYWKIKG	LVQPTRLLLE	YLEEKYEEHL	YERDEGDKWR	NKKFELGLEF	PNLPYYIDGD	VKLTQSMIAI	GST TAG
1	MSYYHHHHHH	DYDIPTTENL	YFQGAMDLM	PILGYWKIKG	LVQPTRLLLE	YLEEKYEEHL	YERDEGDKWR	NKKFELGLEF	PNLPYYIDGD
606	-----	-----	-----	-----	-----	-----	-----	-----	AR-LBD
73	RYIADKHNML	GGCPKERAIEI	SMLEGAVLDI	RYGVSRIAYS	KDFETLKVDF	LSKLPEMLKM	FEDRLCHKTY	LNGDHVTHPD	FMLYDALDVV
101	RYIADKHNML	GGCPKERAIEI	SMLEGAVLDI	RYGVSRIAYS	KDFETLKVDF	LSKLPEMLKM	FEDRLCHKTY	LNGDHVTHPD	FMLYDALDVV
606	-----	-----	-----	-----	-----	-----	-----	-----	LYMDPMCLDA
173	FPKLVCFKKR	IEAIPQIDKY	LKSSKYIAWP	LQGWAQTFGG	GDHPPKSDLV	PR	-----GM	TLGARKLKKL	GNLKLQEEGE
201	FPKLVCFKKR	IEAIPQIDKY	LKSSKYIAWP	LQGWAQTFGG	GDHPPKSDLV	PRGSPEFMGM	TLGARKLKKL	GNLKLQEEGE	NSSAGSPTED
606	-----	-----	-----	-----	-----	-----	-----	-----	PSQKMTVSHI
224	EGYECQIFL	NVLEAIEPGV	VCAGHDNNQP	DSFAALLSSL	NELGERQLVH	VVKWAKALPG	FRNLHVDDQM	AVIQYSWMGL	MVFAMGWRSF
301	EGYECQIFL	NVLEAIEPGV	VCAGHDNNQP	DSFAALLSSL	NELGERQLVH	VVKWAKALPG	FRNLHVDDQM	AVIQYSWMGL	MVFAMGWRSF
648	EGYECQIFL	NVLEAIEPGV	VCAGHDNNQP	DSFAALLSSL	NELGERQLVH	VVKWAKALPG	FRNLHVDDQM	AVIQYSWMGL	MVFAMGWRSF
224	APDLVFNEYR	MHKSRMYSQC	VRMRHLSQEF	GWLQITPQEF	LCMKALLLFS	IIPVDGLKNQ	KFFDELRMNY	IKELDRIIAC	KRKNPTSCSR
401	APDLVFNEYR	MHKSRMYSQC	VRMRHLSQEF	GWLQITPQEF	LCMKALLLFS	IIPVDGLKNQ	KFFDELRMNY	IKELDRIIAC	KRKNPTSCSR
748	APDLVFNEYR	MHKSRMYSQC	VRMRHLSQEF	GWLQITPQEF	LCMKALLLFS	IIPVDGLKNQ	KFFDELRMNY	IKELDRIIAC	KRKNPTSCSR
224	SVQPIARELH	QFTFDLLIKS	HMVSVDFPEM	MAEIIISVQVP	KILSGKVKPI	YFHTQ			
501	SVQPIARELH	QFTFDLLIKS	HMVSVDFPEM	MAEIIISVQVP	KILSGKVKPI	YFHTQ			
848	SVQPIARELH	QFTFDLLIKS	HMVSVDFPEM	MAEIIISVQVP	KILSGKVKPI	YFHTQ			

\* highlighted residues denote differences from the reference protein sequence(s).

Chevoehn Joseph, Director, Quality

Date: 21/Jul/2023

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For Research Use Only. Not for use in diagnostic procedures.

# Certificate of Analysis

## LanthaScreen® Tb-anti-GST (Goat) Antibody, 25 µg

**ThermoFisher**  
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**Part Number:** PV3550  
**Lot Number:** 2845081C  
**Immediate Storage:** -20°C  
**Shipping Conditions:** dry ice

5781 Van Allen Way  
Carlsbad, CA 92008  
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### Description:

Tb-anti-GST Antibody used for TR-FRET Assays.

### Concentration:

0.50 mg/mL as determined spectrophotometrically at A280.  
Calculated **3,300 nM** based on absorbance.

### Molecular Weight:

150 kDa. The weight of the Tb label is negligible compared to the weight of the antibody.

### Chelate to Antibody Ratio:

7:1 Determined spectrophotometrically.

### Storage and Handling:

If properly stored in its original container at -20°C, this product is guaranteed for 6 months from date of purchase.

**Spinning the antibody is important to reduce noise in the assay readout.** Upon thaw of stock or aliquot, mix antibody by inversion or pipetting and centrifuge stock vial or aliquot of antibody at ~10,000 rpm for 5 minutes prior to use. After centrifugation, pipet the quantity of antibody needed for the assay from the top of the liquid, thereby minimizing the potential mixing of material that has been spun to the bottom of the vial. To reduce the number of freeze/thaws aliquots may be prepared. However, to facilitate spinning and pipetting, aliquots below 50 µL are not recommended.

### Storage Buffer:

10 mM HEPES 137 mM NaCl, 2.7 mM KCl (HEPES buffered saline).

### Instrument Settings:

LanthaScreen® Tb-anti-GST (Goat) Antibody, used in a TR-FRET assay, requires a fluorescence plate reader capable of reading TR-FRET and filters in the **green** range. For instrument specific set-up information go to [www.thermofisher.com/instrumentsetup](http://www.thermofisher.com/instrumentsetup).

### Equivalent Usage:

The LanthaScreen® Tb-anti-GST (Rabbit) Antibody and the LanthaScreen® Tb-anti-GST (Goat) Antibody are **INTERCHANGEABLE** in any protocol requiring a LanthaScreen® Tb-anti-GST antibody.

## QUALITY ASSURANCE

### Functional Testing:

The performance of each lot of LanthaScreen® Tb-anti-GST (Goat) Antibody is confirmed by the LanthaScreen® TR-FRET LXR alpha Coactivator Assay (PV4655) using a titration of the agonist T0901317 (Caymen Chemicals 71810).



Chevoyn Joseph, Director, Quality

Date: 05/Mar/2024

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LanthaScreen® is a registered trademark of Life Technologies Corporation.

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