



MODfinder

Genetically Modified Organisms

Real-Time PCR detection and quantification

GMO is any living being added with an “extra-piece” of DNA in a lab

Using genetic engineering or transgenic technologies we can create combinations of plant, animal, bacterial and virus genes that can not occur in nature or through traditional crossbreeding methods

Real-time PCR is the gold standard in GMO analysis according to ISO norms which are now recognized worldwide as a benchmark

European Union was the first globally to introduce a legislation on the approval, traceability and detection of GMOs, including labelling of food and feed containing GMOs.

This provided maximum protection of public health and of environment, while at the same time providing a science based regulatory structure where biotechnology can flourish.

The development and application of reliable detection and quantitative analytical methods was essential for the implementation of the labelling rules.

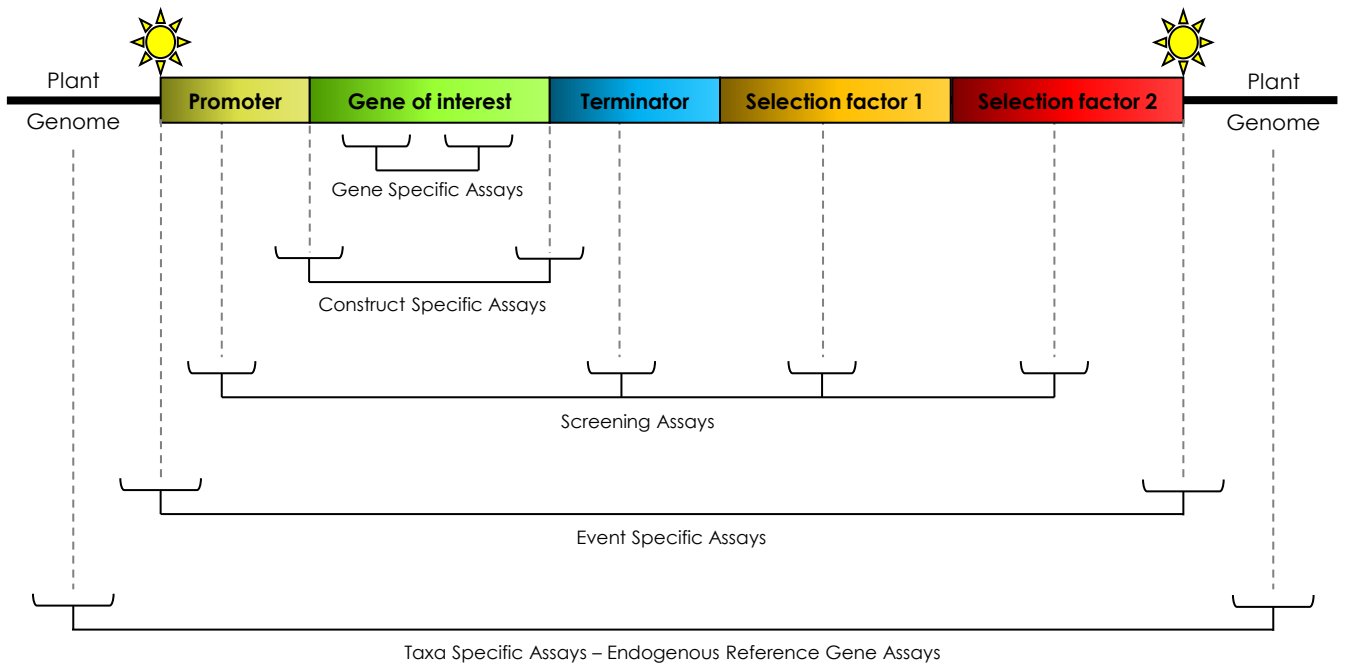
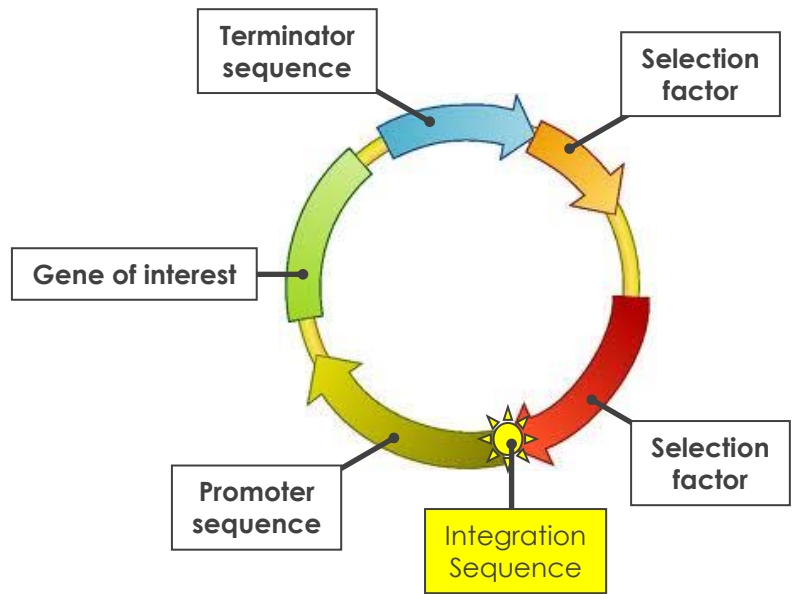
Molecular analysis required to comply with the current European Union GMO legislation consist of three distinct steps:

- Detection
- Identification
- Quantification

Using MODIfinder products, along with an appropriate DNA extraction method, enables to test the presence of GMOs in grain commodities ingredients, semifinished and finished products, according to EU norms.

Insertion is based on a circular cloning vector with several elements

When the plasmid integrates into the host genome it takes a linear structure that accounts for the different PCR-based GMO tests to detect it. These can be grouped into at least four categories corresponding to their level of specificity.



New GMO are constantly appearing and listed in databases

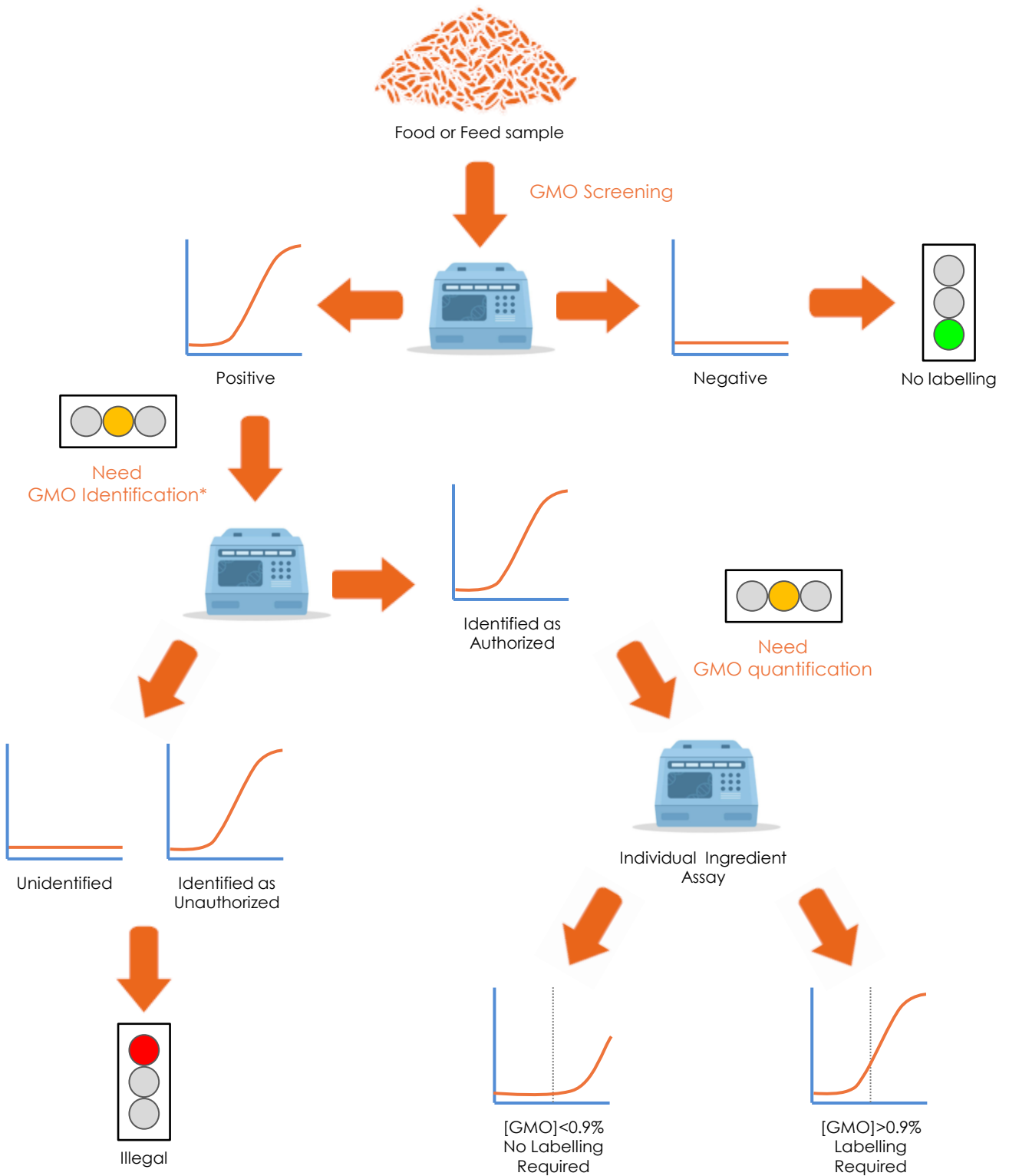
EU legislation covers all GMOs that have received Community authorization for the placing on the market; in contrast, unapproved GMOs are not permitted at any level.

As the number of genetically modified plants is increasing, it is necessary to use up-to-date methods for GMO screening and identification in food products

Regulation (EC) 1829/2003 calls for the labelling of food and feed products that intentionally contain authorized GMO or have an adventitious (accidental and technically unavoidable) presence of authorized GMOs, above a threshold of 0.9% in otherwise non-GMO food and feed. When the sample contains a mixture of GMOs, each ingredient (analytically translated as content per taxon) may not exceed 0.9%, irrespective of its proportion in the final product.

The basis for a qualitative GMO screening procedure is the use of control elements such as promoters, transcription terminators, and markers, such as resistance genes.

Negative responses from such a panel of screening methods eliminate the possibility of GMO presence in a test sample, but only if the selected screening methods cover all the GMOs to be detected.



(*) When testing complex matrices composed by more than one ingredient it is fundamental to have knowledge of the different plant varieties (taxa) present in the sample in order to restrict the number of GM specific tests to be performed.

MODfinder screening kits detect the presence of GMOs in a DNA extract

Real-Time kits for all the relevant screening target (including gene and construct specific assays) allowing their detection in single-plex or multiplex. were developed following indications published by the EURL GMFF or in other peer reviewed scientific literature. Generon collection includes also Plant/Eukaryotic generic marker to determine the overall amplifiability of the extracted DNA according to ISO 24276.

Generon developed a portfolio of kits to provide the customers with a turn-key solution to test the presence of GMO according to EURL and ISO indications. The portfolio includes all the reagents and controls to execute the detection protocols



MODfinder identification kits detect the unique signature of a transformation event that is the junction at the integration locus between the recipient genome and the inserted DNA.

The identification of the GMO contaminating the matrix under investigation is a fundamental step when considering the labelling rules enforced in Europe. Quantitation of GMO contamination must be in fact relative to something. In European legislation it refers to the presence w/w relative to the ingredient and not to the whole product. Therefore, knowing exactly which is the event to quantify is crucial. All the kits allow event detection with the sensitivity indicated by the method developers.

A. Singleplex Real-Time PCR kits for GM markers detection (50 reactions)

MODfinder 35S Promoter (p35S)	PGE01A-50	MODfinder nptII	PGE07A-50
MODfinder NOS Terminator (tNOS)	PGE04A-50	MODfinder BAR	PGE15A-50
MODfinder NOS Promoter (pNOS)	PGE27A-50	MODfinder FMV Promoter (pFMV)	PGE17A-50
MODfinder pan-EPSPS	PGE16A-50	MODfinder PAT	PGE14A-50
MODfinder CTP2-CP4-EPSPS	PGE57A-50	MODfinder PAT (acc. to IWA32)	PGE14AIWA32-50
MODfinder OTP mEPSPS	PGE30A-50	MODfinder pan-Cry1A (incl. MON810)	PGE25A-50
MODfinder tE9 marker	PGE37A-50	MODfinder Cry1Ab Ac acc. to IWA32	PGE25AIWA32-50
MODfinder 35S Terminator (t35S)	PGE03A-50		

B. Multiplex* Real-Time PCR kits for GM markers detection (50 reactions)

MODfinder MultiSCREEN 2-plex p35S/tNOS	PGE05A-50
MODfinder MultiSCREEN 3-plex p35S/tNOS/pFMV	PGE26A-50
MODfinder MultiSCREEN 4-plex p35S/tNOS/pFMV with internal control	PGE26A-C- 50
MODfinder MultiSCREEN 3-plex nptII/PAT/pan-EPSPS MODfinder	PGE32A-50
MultiSCREEN 4-plex p35S/tNOS/pFMV/BAR	PGE34A-50
MODfinder MultiSCREEN 4-plex nptII /PAT/pan-EPSPS /pNOS	PGE35A-50
MODfinder MultiSCREEN 2-plex nptII/pFMV	PGE40A-50
MODfinder MultiSCREEN 4-plex pan-EPSPS/PAT/BAR/nptII MODfinder	PGE42A-50
MultiSCREEN 3-plex Cry1A/PAT/tE9	PGE44A-50
MODfinder MultiSCREEN 4-plex p35S/tNOS/pFMV/t35S MODfinder	PGE47A-50
MultiSCREEN 3-plex Cry1A/PAT/BAR	PGE51A-50
MODfinder MultiSCREEN 2-plex pan-EPSPS/PAT	PGE53A-50
MODfinder MultiSCREEN 3-plex Cry1Ab Ac/tE9/OTP mEPSPS	PGE57A-50

C. Kits for DNA amplifiability verification (50 reactions)

MODfinder 28S (eukaryotic DNA)	PGE06A-50	MODfinder Wheat	PGE29A-50
MODfinder Soy	PGE09A-50	MODfinder Flax	PGE12A-50
MODfinder Soy with IAC	PGE09A-C-50	MODfinder Rapeseed	PGE19A-50
MODfinder Rice	PGE13A-50	Cotton with IAC	PGE21AIWA32-C-50
MODfinder Rice with IAC	PGE13A-C-50	MODfinder Corn	PGE24A-50
MODfinder Potato	PGE20A-50	MODfinder Corn with IAC	PGE24A-C-50
MODfinder Sugar Beet	PGE22A-50		

D. Multiplex* Real-Time PCR kits for botanical impurities detection (50 reactions)

MODfinder MultiENDO 4-plex Corn/Soy/Rapeseed/Cotton	PGE33A-50
MODfinder MultiENDO 2-plex Corn/Soy	PGE43A-50
MODfinder MultiENDO 3-plex Rice/Sugar Beet/Wheat	PGE48A-50
MODfinder MultiENDO 4-plex Flax/Soy/Rapeseed/Cotton	PGE49A-50

E. Multiplex* Real-Time PCR kits for viral particles detection (50 reactions)

MODfinder MultiSCREEN 2-plex CaMV/FMV	PGE39A-50
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* 2-plex kits (FAM/HEX); 3-plex kits (FAM/HEX/Cy5); 4-plex (FAM/HEX/Texas Red/Cy5)

Instruction for ordering - MODfinder Identification kits

A. MODfinder singleplex (FAM) Real-Time PCR kits for GM corn event ID (50 reactions)

PGC01A-50	Corn Bt176 (UID SYN-EV176-9)	PGC02A-50	Corn MON810 (UID MON-00810-6)
PGC03A-50	Corn T25 (UID ACS-ZM003-2)	PGC04A-50	Corn BT11 (UID SYN-BT011-1)
PGC05A-50	Corn NK603 (UID MON-00603-6)	PGC08A-50	Corn DAS1507 (UID DAS-01507-1) Corn
PGC07A-50	Corn GA21 (UID MON-00021-9)	PGC10A-50	MIR604 (UID SYN-IR604-5)
PGC09A-50	Corn MON863 (UID MON-00863-5)	PGC12A-50	Corn DBT418 (UID DKB-89614-9)
PGC11A-50	Corn DAS59122 (UID DAS-59122-7)	PGC14A-50	Corn MIR162 (UID SYN-IR162-4)
PGC13A-50	Corn 98140 (UID DP-098140-6)	PGC17A-50	Corn Event 3272 (UID SYN-E3272-5)
PGC16A-50	Corn LY038 (UID REN-00038-3)	PGC19A-50	Corn MON88017 (UID MON-88017-3)
PGC20A-50	Corn MON89034 (UID MON-89034-3)	PGC22A-50	Corn DAS40278 (UID DAS-40278-9)
PGC23A-50	Corn MON87460 (UID MON-87460-4)	PGC24A-50	Corn Event 5307 (UID SYN-05307-1)
PGC25A-50	Corn MON87427 (UID MON-87427-7)	PGC26A-50	Corn VCO-01981-5 (UID VCO-01981-5)
PGC27A-50	Corn MON87411 (UID MON-87411-9)	PGC29A-50	Corn 4114 (UID DP-004114-3)
PGC30A-50	Corn MZIR098 (UID SYN-00098-3) Corn	PGC31A-50	Corn MZHG0JG (UID SYN-000JG-2)
PGC32A-50	MON87403 (UID MON-87403-1) Corn		

B. MODfinder singleplex (FAM) Real-Time PCR kits for GM corn event ID (50 reactions)

PGS01A-50	Soy A2704-12 (UID ACS-GM005-3)	PGS02A-50	Soy GTS 40-3-2 (RoundUp Ready) (UID MON-04032-6)
PGS03A-50	Soy A5547-127 (UID ACS-GM006-4)	PGS04A-50	Soy MON89788 (UID MON-89788-1)
PGS05A-50	Soy DP305423 (UID DP-305423-1)	PGS06A-50	Soy DP356043 (UID DP-356043-5)
PGS07A-50	Soy MON87701 (UID MON-87701-2)	PGS08A-50	Soy CV127 (UID BPS-CV127-9)
PGS09A-50	Soy MON87705 (UID MON-87705-6)	PGS10A-50	Soy MON87769 (UID MON-87769-7)
PGS11A-50	Soy FG72 (UID MST-FG072-2)	PGS12A-50	Soy DAS44406 (UID DAS-44406-6)
PGS13A-50	Soy DAS68416 (UID DAS-68416-4)	PGS14A-50	Soy DAS81419 (UID DAS-81419-2)
PGS15A-50	Soy MON87708 (UID MON-87708-9)	PGS19A-50	Soy MON87751 (UID MON-87751-7)
PGS20A-50	Soy SYHT0H2 (UID SYN-000H2-5)	PGS33A-50	Soy GMB151 (UID BCS-GM151-6)

C. MODfinder singleplex (FAM) Real-Time PCR kits for GM cotton event ID (50 reactions)

PGT01A-50	Cotton MON531 (UID MON-00531-6)	PGT02A-50	Cotton MON1445 (UID MON-01445-2)
PGT03A-50	Cotton 281-24-236 (UID DAS-24236-5)	PGT04A-50	Cotton 3006-210-23 (UID DAS-21023-5)
PGT05A-50	Cotton LL25 (UID ACS-GH001-3)	PGT06A-50	Cotton MON15985 (UID MON-15985-7)
PGT07A-50	Cotton GHB614 (UID BCS-GH002-5)	PGT08A-50	Cotton MON88913 (UID MON-88913-8)
PGT09A-50	Cotton GHB119 (UID BCS-GH005-8)	PGT10A-50	Cotton T304-40 (UID BCS-GH004-7)
PGT11A-50	Cotton COT-102 (UID SYN-IR102-7)	PGT12A-50	Cotton MON88701 (UID MON-88701-3)
PGT13A-50	Cotton DAS81910 (UID DAS-81910-7)	PGT14A-50	Cotton GHB811 (UID BCS-GH811-4)

D. MODfinder singleplex (FAM) Real-Time PCR kits for GM rapeseed event ID (50 reactions)

PGZ01A-50	Rapeseed MS8 (UID ACS-BN005-8)	PGZ02A-50	Rapeseed RF3 (UID ACS-BN003-6)
PGZ03A-50	Rapeseed RT73 (UID MON-00073-7)	PGZ04A-50	Rapeseed T45 (UID ACS-BN008-2)
PGZ05A-50	Rapeseed HCN92 (UID ACS-BN007-1)	PGZ06A-50	Rapeseed RF1 (UID ACS-BN001-4)
PGZ07A-50	Rapeseed RF2 (UID ACS-BN002-5)	PGZ08A-50	Rapeseed OXY-235 (UID ACS-BN011-5)
PGZ09A-50	Rapeseed MS1 (UID ACS-BN004-7)	PGZ10A-50	Rapeseed DP073496 (UID DP-073496-4)
PGZ11A-50	Rapeseed MON88302 (UID MON-88302-9)	PGZ12A-50	Rapeseed MS11 (UID ACS-BN012-7)
PGZ14A-50	Rapeseed MON94100 (UID MON-94100-2)		

E. MODfinder singleplex (FAM) Real-Time PCR kits for various GM events ID (50 reactions)

PGB01A-50	Sugar beet RURH7-1 (UID KM-000H71-4)	PGF01A-50	Flax FP967 (UID CDC-FL001-2)
PGP01A-50	Potato EH92-527 (UID BPS-25271-9)	PGR01A-50	Rice LL601 (UID BCS-OS003-7)
PGR02A-50	Rice LL62 (UID ACS-OS002-5)	PGR03A-50	Rice BT63 (UID HZU-HH001-9)
PGX01A-50	Salmon AquAdvantage	PGY01A-50	Papaya Huanhong N1
PGY02A-50	Papaya 55-1 (UID CUH-CP551-8)		

F. Multiplex# MODfinder MultiSCREEN Real-Time PCR kits for multiple events screening (50 reactions)

PGC28A-50	2-plex Corn DAS40278/LY038
PGS17A-50	2-plex Soy CV127/DP305423
PGS21A-50	3-plex Soy CV127+MON87701/DP305423+DP356043/MON87708+MON87769
PGS31A-50	4-plex Soy CV127/DP305423/MON87751/MON87708
PGS32A-50	4-plex Soy MON87701/DP356043/MON87754(tE9)/MON87769
PGS34A-50	4-plex Soy CV127/DP305423/MON87751/MON87769
PGZ32A-50	3-plex Rapeseed tE9/MON94100/DP73496

2-plex kits (FAM/HEX); 3-plex kits (FAM/HEX/Cy5); 4-plex (FAM/HEX/Texas Red/Cy5)

MODfinder quantitative kits were developed to quantify the presence of a GMO in a sample according to EU indications

MODfinder portfolio includes purified DNA extracted from traceable reference materials at a defined concentration.

Quantitation of GM content is based on the relative ratio of the copy number of the GM target (detected using the identification PCR reactions) and the copies of the corresponding species detected using the species-specific PCR reactions. Calculation requires two standard curves obtained by using DNA extracts from reference materials.

When testing matrices derived from single ingredients (soy grains, lecithin, corn, corn starch...) a convenient semi-quantitative estimation of GMO contamination can be performed through sample DNA concentration normalization.

Instruction for ordering - MODfinder reference DNA

A. Quantified Plant DNA GM-free extracts from ISO 17034 validated entities

Each vial contains 120 µL (Conc. 10 ng/ µL) of DNA; inquire for customized formats.

PGE09R-BLK10PPM Soy	PGE13R-BLK10PPM Rice	PGE19R-BLK10PPM Rapeseed
PGE20R-BLK10PPM Potato	PGE21R-BLK10PPM Cotton	PGE22R-BLK10PPM Sugarbeet
PGE24R-BLK10PPM Corn		

B. Quantified GM Plant DNA extracts from ISO 17034 validated entities

Each vial contains 120 µL (Conc. 10 ng/ µL) of DNA with 1% contamination; inquire for customized formats.

PGB01R	Sugarbeet RURH7-1 (UID KM-000H71-4)	PGS13R	Soy DAS68416 (UID DAS-68416-4)
PGC01R	Corn Bt176 (UID SYN-EV176-9)	PGS14R	Soy DAS81419 (UID DAS-81419-2)
PGC02R	Corn MON810 (UID MON-00810-6)	PGS15R	Soy MON87708 (UID MON-87708-9)
PGC03R	Corn T25 (UID ACS-ZM003-2)	PGS19R	Soy MON87751 (UID MON-87751-7)
PGC04R	Corn BT11 (UID SYN-BT011-1)	PGS20R	Soy SYHT0H2 (UID SYN-000H2-5)
PGC05R	Corn NK603 (UID MON-00603-6)	PGS33R	Soy GMB151 (UID BCS-GM151-6)
PGC07R	Corn GA21 (UID MON-00021-9)	PGS35R	Soy DBN9004 (UID DBN-09004-6)
PGC08R	Corn DAS1507 (UID DAS-01507-1)	PGT01R	Cotton MON531 (UID MON-00531-6)
PGC09R	Corn MON863 (UID MON-00863-5)	PGT02R	Cotton MON1445 (UID MON-01445-2)
PGC10R	Corn MIR604 (UID SYN-IR604-5)	PGT03R	Cotton 281-24-236 (UID DAS-24236-5)
PGC11R	Corn DAS59122 (UID DAS-59122-7)	PGT04R	Cotton 3006-210-23 (UID DAS-21023-5)
PGC13R	Corn 98140 (UID DP-098140-6)	PGT05R	Cotton LL25 (UID ACS-GH001-3)
PGC14R	Corn MIR162 (UID SYN-IR162-4)	PGT06R	Cotton MON15985 (UID MON-15985-7)
PGC17R	Corn Event 3272 (UID SYN-E3272-5)	PGT07R	Cotton GHB614 (UID BCS-GH002-5)
PGC18R	Corn MON87419 (UID-MON87419-8)**	PGT08R	Cotton MON88913 (UID MON-88913-8)
PGC19R	Corn MON88017 (UID MON-88017-3)	PGT09R	Cotton GHB119 (UID BCS-GH005-8)
PGC20R	Corn MON89034 (UID MON-89034-3)	PGT10R	Cotton T304-40 (UID BCS-GH004-7)
PGC22R	Corn DAS40278 (UID DAS-40278-9)	PGT11R	Cotton COT-102 (UID SYN-IR102-7)
PGC23R	Corn MON87460 (UID MON-87460-4)	PGT12R	Cotton MON88701 (UID MON-88701-3)
PGC24R	Corn Event 5307 (UID SYN-05307-1)	PGT13R	Cotton DAS81910 (UID DAS-81910-7)
PGC25R	Corn MON87427 (UID MON-87427-7)	PGT14R	Cotton GHB811 (UID BCS-GH811-4)
PGC26R	Corn VCO-01981-5 (UID VCO-01981-5)	PGZ01R	Rapeseed MS8 (UID ACS-BN005-8)
PGC27R	Corn MON87411 (UID MON-87411-9)	PGZ02R	Rapeseed RF3 (UID ACS-BN003-6)
PGC29R	Corn 4114 (UID DP-004114-3)	PGZ03R	Rapeseed GT73 (UID MON-00073-7)
PGC30R	Corn MZIR098 (UID SYN-00098-3)	PGZ04R	Rapeseed T45 (UID ACS-BN008-2)
PGC31R	Corn MZHGOJG (UID SYN-000JG-2)	PGZ05R	Rapeseed TOPAS 19 2 (UID ACS-BN007-1)
PGC32R	Corn MON87403 (UID MON-87403-1)	PGZ06R	Rapeseed RF1 (UID ACS-BN001-4)
PGS01R	Soy A2704-12 (UID ACS-GM005-3)	PGZ07R	Rapeseed RF2 (UID ACS-BN002-5)
PGS02R	Soy GTS 40-3-2 (UID MON-04032-6) Soy	PGZ08R	Rapeseed OXY-235 (UID ACS-BN011-5)
PGS03R	A5547-127 (UID ACS-GM006-4) Soy	PGZ09R	Rapeseed MS1 (UID ACS-BN004-7)
PGS04R	MON89788 (UID MON-89788-1) Soy	PGZ10R	Rapeseed DP073496 (UID DP-073496-4)
PGS05R	DP305423 (UID DP-305423-1)	PGZ11R	Rapeseed MON88302 (UID MON-88302-9)
PGS06R	Soy DP356043 (UID DP-356043-5)	PGZ12R	Rapeseed MS11 (UID ACS-BN012-7)
PGS07R	Soy MON87701 (UID MON-87701-2) Soy	PGP01R	Potato EH92-527 (UID BPS-25271-9)
PGS08R	CV127 (UID BPS-CV127-9)	PGP02R	Potato AM04-1020 (UID BPS-A1020-5)
PGS09R	Soy MON87705 (UID MON-87705-6) Soy	PGP03R	Potato AV43-6-G7 (UID AVE-436G7-1)
PGS10R	MON87769 (UID MON-87769-7)	PGP04R	Potato PH05-026-0048 (UID BPS-PH048-1)
PGS11R	Soy FG72 (UID MST-FG072-2)	PGR02R	Rice LL62 (UID ACS-OS002-5)
PGS12R	Soy DAS44406 (UID DAS-44406-6)		

Instruction for ordering - MODfinder quantification kits

Each kit contains: event specific primers and probe mix (50 tests, 30 µl reaction end volume); taxon specific primers and probe mix (50 tests, 30 µl reactions end volume); standard solutions at scalar target GM concentration; taxon DNA standard solutions at scalar concentration; negative control. Standard solutions are obtained extracting lot traceable reference materials using Ion-Force DNA Extraction kit.

A. MODfinder Real-Time PCR kits for GM corn quantification (50 reactions)

PGC01Q-50	Corn Bt176 (UID SYN-EV176-9)*	PGC02Q-50	Corn MON810 (UID MON-00810-6)
PGC03Q-50	Corn T25 (UID ACS-ZM003-2)	PGC04Q-50	Corn BT11 (UID SYN-BT011-1)
PGC05Q-50	Corn NK603 (UID MON-00603-6)	PGC07Q-50	Corn GA21 (UID MON-00021-9)
PGC08Q-50	Corn DAS1507 (UID DAS-01507-1)	PGC09Q-50	Corn MON863 (UID MON-00863-5)*
PGC10Q-50	Corn MIR604 (UID SYN-IR604-5)	PGC11Q-50	Corn DAS59122 (UID DAS-59122-7)
PGC20Q-50	Corn MON89034 (UID MON-89034-3)	PGC14Q-50	Corn MIR162 (UID SYN-IR162-4)
PGC23Q-50	Corn MON87460 (UID MON-87460-4)	PGC19Q-50	Corn MON88017 (UID MON-88017-3)
PGC25Q-50	Corn MON87427 (UID MON-87427-7)	PGC22Q-50	Corn DAS40278 (UID DAS-40278-9)
PGC27Q-50	Corn MON87411 (UID MON-87411-9)	PGC24Q-50	Corn Event 5307 (UID SYN-05307-1)
PGC30Q-50	Corn MZIR098 (UID SYN-00098-3)	PGC29Q-50	Corn 4114 (UID DP-004114-3)
PGC32Q-50	Corn MON87403 (UID MON-87403-1)	PGC31Q-50	Corn MZHG0JG (UID SYN-000JG-2)

B. MODfinder Real-Time PCR kits for GM soy quantification (50 reactions)

PGS01Q-50	Soy A2704-12 (UID ACS-GM005-3)	PGS02Q-50	Soy GTS 40-3-2 (UID MON-04032-6)
PGS03Q-50	Soy A5547-127 (UID ACS-GM006-4)	PGS04Q-50	Soy MON89788 (UID MON-89788-1)
PGS05Q-50	Soy DP305423 (UID DP-305423-1)	PGS06Q-50	Soy DP356043 (UID DP-356043-5)*
PGS07Q-50	Soy MON87701 (UID MON-87701-2)	PGS08Q-50	Soy CV127 (UID BPS-CV127-9)
PGS09Q-50	Soy MON87705 (UID MON-87705-6)	PGS10Q-50	Soy MON87769 (UID MON-87769-7)
PGS11Q-50	Soy FG72 (UID MST-FG072-2)	PGS12Q-50	Soy DAS44406 (UID DAS-44406-6)
PGS13Q-50	Soy DAS68416 (UID DAS-68416-4)	PGS14Q-50	Soy DAS81419 (UID DAS-81419-2)
PGS15Q-50	Soy MON87708 (UID MON-87708-9)	PGS19Q-50	Soy MON87751 (UID MON-87751-7)
PGS20Q-50	Soy SYHT0H2 (UID SYN-000H2-5)	PGS33Q-50	Soy GMB151 (UID BCS-GM151-6)

C. MODfinder Real-Time PCR kits for GM cotton quantification (50 reactions) - ON DEMAND -

PGT01Q-50	Cotton MON531 (UID MON-00531-6)	PGT02Q-50	Cotton MON1445 (UID MON-01445-2)
PGT03Q-50	Cotton 281-24-236 (UID DAS-24236-5)	PGT04Q-50	Cotton 3006-210-23 (UID DAS-21023-5)
PGT05Q-50	Cotton LL25 (UID ACS-GH001-3)	PGT06Q-50	Cotton MON15985 (UID MON-15985-7)
PGT07Q-50	Cotton GHB14 (UID BCS-GH002-5)	PGT08Q-50	Cotton MON88913 (UID MON-88913-8)
PGT09Q-50	Cotton GHB119 (UID BCS-GH005-8)	PGT10Q-50	Cotton T304-40 (UID BCS-GH004-7)

D. MODfinder Real-Time PCR kits for GM rapeseed quantification (50 reactions)

PGZ01Q-50	Rapeseed MS8 (UID ACS-BN005-8)	PGZ02Q-50	Rapeseed RF3 (UID ACS-BN003-6)
PGZ03Q-50	Rapeseed GT73 (UID MON-00073-7)	PGZ04Q-50	Rapeseed T45 (UID ACS-BN008-2)
PGZ05Q-50	Rapeseed Topas19/2 (UID ACS-BN007-1)*	PGZ06Q-50	Rapeseed RF1 (UID ACS-BN001-4)*
PGZ07Q-50	Rapeseed RF2 (UID ACS-BN002-5)*	PGZ09Q-50	Rapeseed MS1 (UID ACS-BN004-7)*
PGZ10Q-50	Rapeseed DP073496 (UID DP-073496-4)*	PGZ11Q-50	Rapeseed MON88302 (UID MON-88302-9)

E. MODfinder Real-Time PCR kits for various GM events GM quantification (50 reactions)

PGB01Q-50	Sugarbeet H7-1 (KM-000H71-4)
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INGREDIENTS AUTHENTICITY | CHEMICAL RESIDUES
MICROBIOLOGY | MYCOTOXINS
ALLERGENS | GMO

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