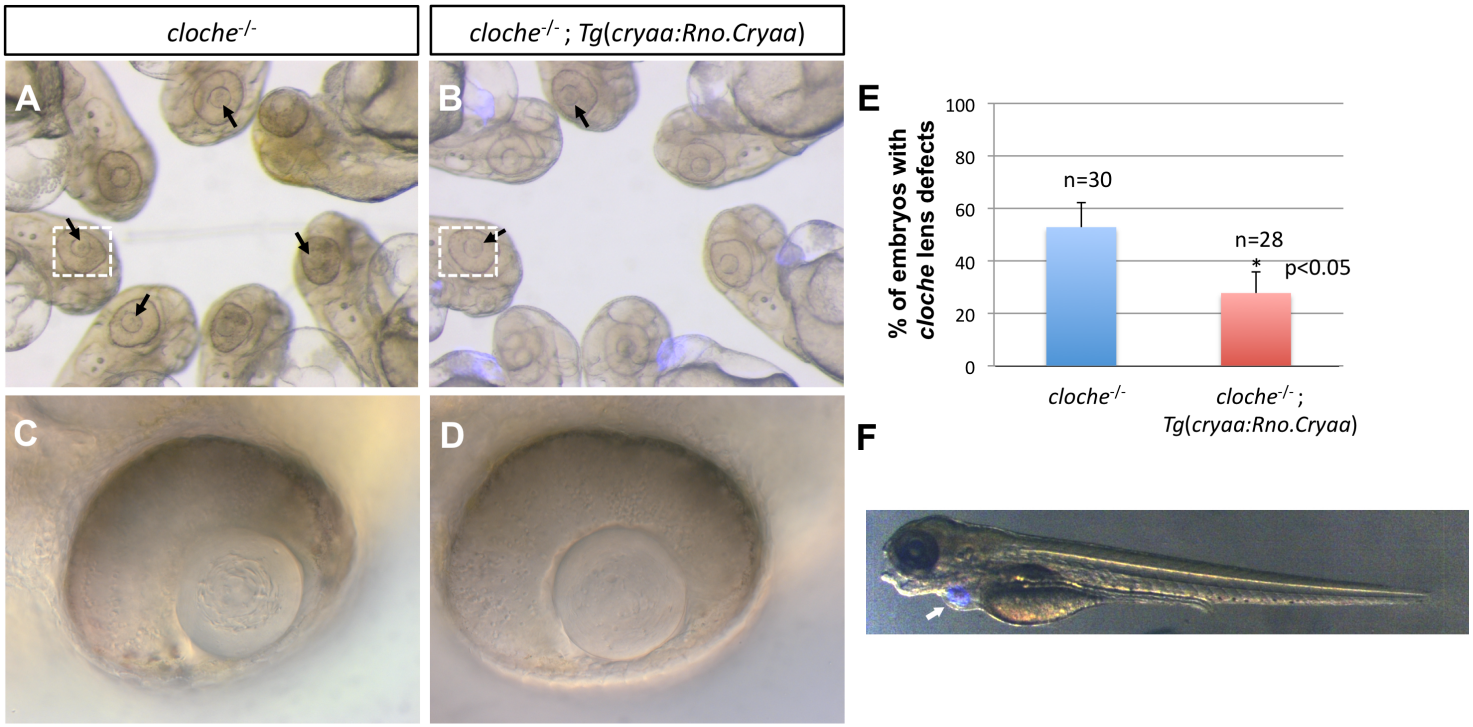
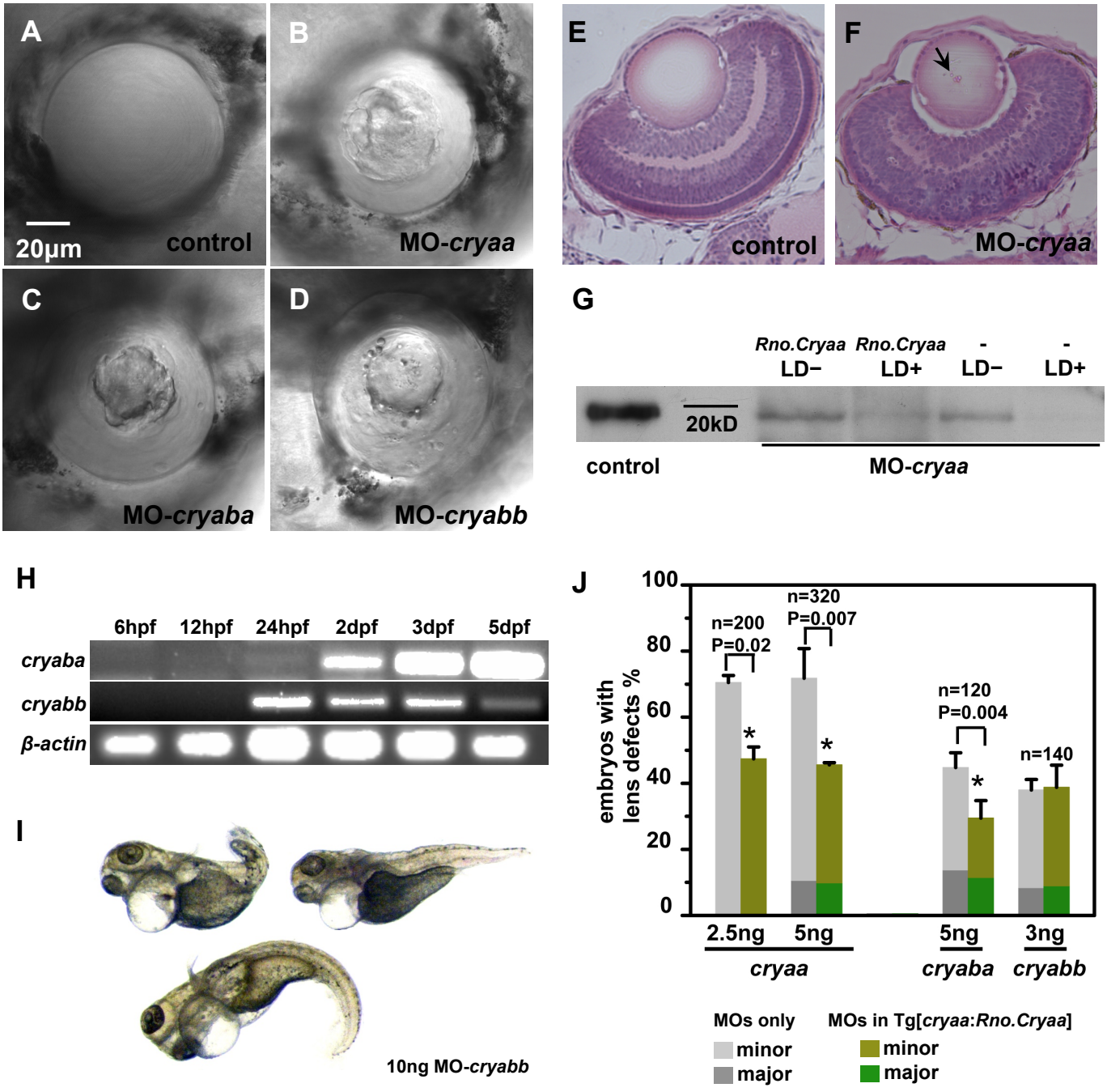
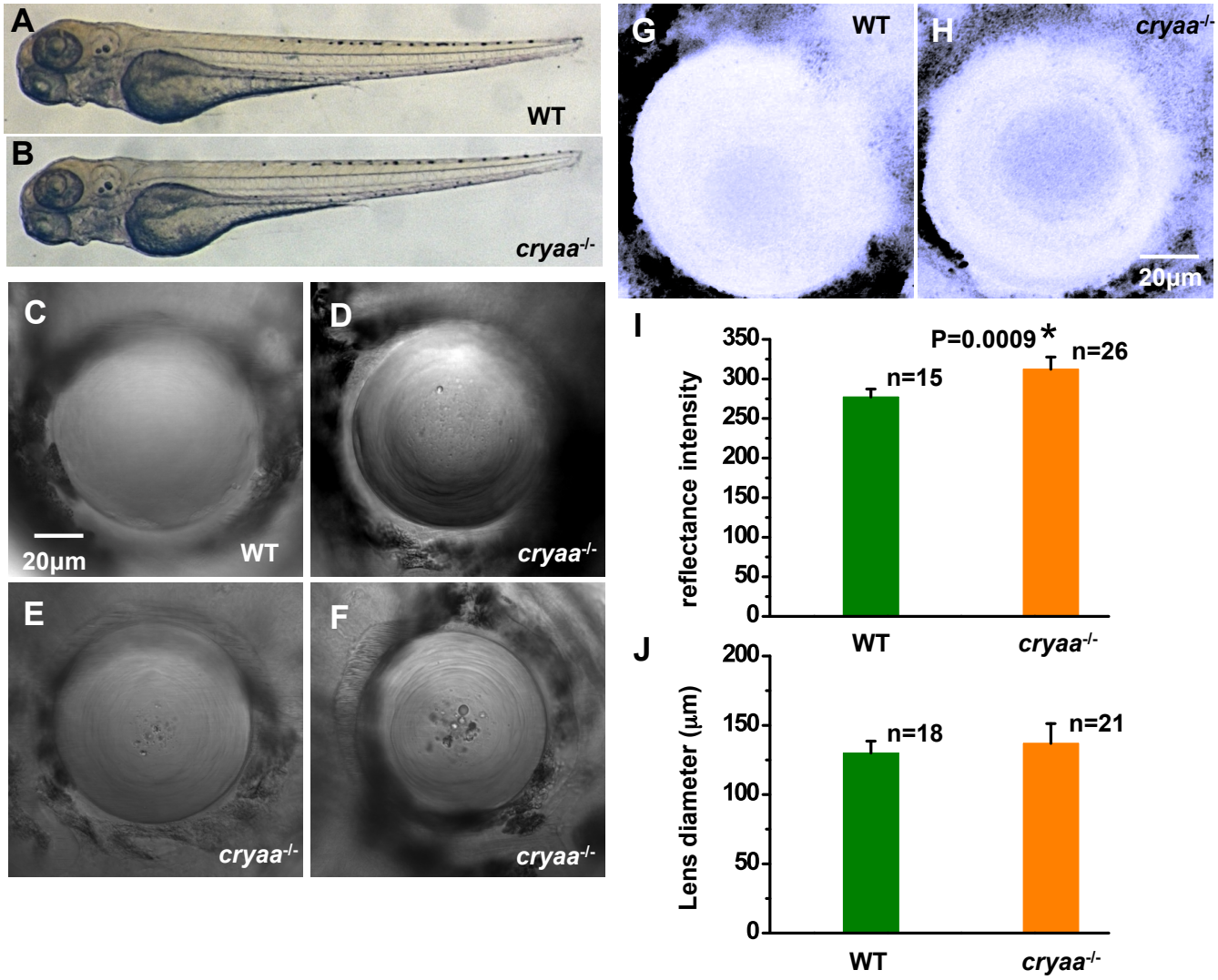
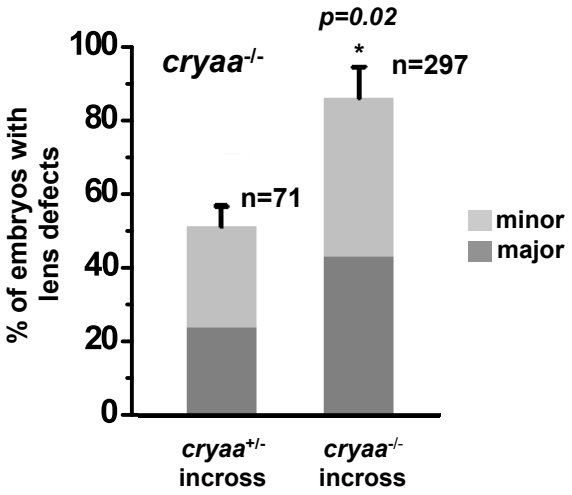
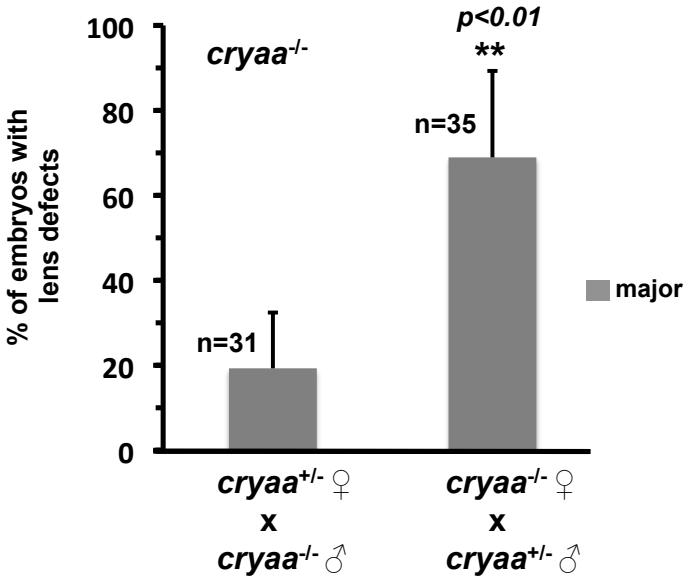

cloche-/-
cloche-/- ; Tg(cryaa:Rno.Cryaa)
A
B
C
D
E
% of embryos with cloche lens defects
100
80
60
40
20
0
n=30
n=28
*
p<0.05
cloche-/-
cloche-/- ; Tg(cryaa:Rno.Cryaa)
F

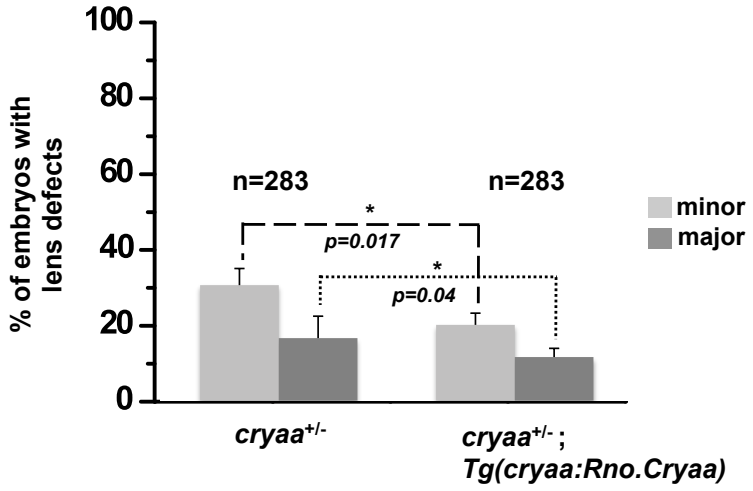

A
20µm
control
B
MO-cryaa
C
MO-cryaba
D
MO-cryabb
E
control
F
MO-cryaa
G
Rno.Cryaa LD−
Rno.Cryaa LD+
- LD−
- LD+
20kD
control
MO-cryaa
H
6hpf
12hpf
24hpf
2dpf
3dpf
5dpf
cryaba
cryabb
β-actin
I
10ng MO-cryabb
J
embryos with lens defects %
100
80
60
40
20
0
n=200
P=0.02
n=320
P=0.007
n=120
P=0.004
n=140
2.5ng
5ng
5ng
3ng
cryaa
cryaba
cryabb
MOs only
minor
major
MOs in Tg[cryaa:Rno.Cryaa]
minor
major

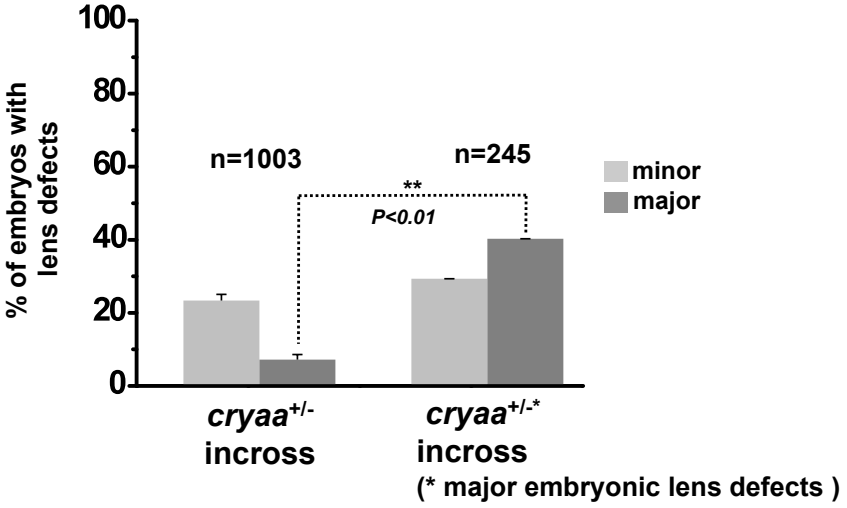

A
WT
B
cryaa-/-
C
20µm
WT
D
cryaa-/-
E
cryaa-/-
F
cryaa-/-
G
WT
H
cryaa-/-
20µm
I
P=0.0009 *
n=15
n=26
reflectance intensity
350
300
250
200
150
100
50
0
WT
cryaa-/-
J
n=18
n=21
Lens diameter (µm)
200
150
100
50
0
WT
cryaa-/-


p=0.02
*
cryaa-/-
n=297
n=71
100
80
60
40
20
0
% of embryos with lens defects
minor
major
cryaa+/- incross
cryaa-/- incross

WT x WT
WT x *cryaa*$^{+/-}$
cryaa$^{+/-}$ x *cryaa*$^{-/-}$
cryaa$^{-/-}$ x *cryaa*$^{-/-}$
hpf 0 1 3 6 48 0 1 3 6 48 0 1 3 6 48 0 1 3 6


100
80
60
40
20
0
% of embryos with lens defects
cryaa-/-
p<0.01
**
n=35
n=31
major
cryaa+/- ♀
x
cryaa-/- ♂
cryaa-/- ♀
x
cryaa+/- ♂


100
80
60
40
20
0
% of embryos with lens defects
n=283
n=283
*
p=0.017
*
p=0.04
minor
major
cryaa+/-
cryaa+/- ;
Tg(cryaa:Rno.Cryaa)


100
80
60
40
20
0
% of embryos with lens defects
n=1003
n=245
**
P<0.01
minor
major
cryaa+/-
incross
cryaa+/-*
incross
(* major embryonic lens defects)