

## 網膜に特異的な遺伝子のクローニングとその応用

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# 1988 Fiscal Year Final Research Report Summary

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## Isolation and characterization of retina specific cDNA clones

Research Project

### Project/Area Number

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62571022

### Research Category

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Grant-in-Aid for General Scientific Research (C)

### Allocation Type

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Single-year Grants

### Research Field

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応用薬理学・医療系薬学

### Research Institution

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Cancer Research Institute, Kanazawa University

### Principal Investigator

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### Co-Investigator(Kenkyū-buntansha)

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### Project Period (FY)

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1987 – 1988

### Keywords

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MEKA cDNA / MEKA protein / Retina / Photoreceptor cell / 組織化学

### Research Abstract

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We have isolated a MEKA cDNA clone by differential colony hybridization method. The MEKA cDNA encodes unknown soluble protein whose molecular weight and pI are calculated to be 27KDa and 5.35, respectively. We found by Northern and in situ hybridization that MEKA mRNA was transcribed only in the photoreceptor cells. The MEKA cDNA was ligated with expression vector PEX1 and a MEKA-fusion protein synthesized in E.coli was purified and used as antigen. By the Western blot and immunohistochemical study, we found that MEKA protein is expressed in the photoreceptor cells, but not in other tissues.

# Research Products (11 results)

All Other

All Publications (11 results)

- [Publications] Che-Hui KUO: Molc.Brain Res.1. 251-260 (1986) ▼
- [Publications] Che-Hui KUO: Brain Res.442. 147-151 (1988) ▼
- [Publications] Che-Hui KUO: Molc.Brain Res.(1989) ▼
- [Publications] Shoichi ISEKI: Vision Res.(1989) ▼
- [Publications] Che-Hui KUO: Brain Res.(1989) ▼
- [Publications] 郭哲輝: 蛋白質核酸酵素. (1989) ▼
- [Publications] Che-Hui KUO: "Multiple opsin mRNA species in bovine retina" Molc. Brain Res.1. 251-260 (1986) ▼
- [Publications] Che-Hui KUO: "Presence of retina-specific proteins in the lamprey pineal complex" Brain Res.442. 147-151 (1988) ▼
- [Publications] Che-Hui KUO: "Isolation of a novel retina-specific clone(MEKAcDNA) encoding a photoreceptor soluble protein" Molc. Brain Res.(1989) ▼
- [Publications] Shoichi ISEKI: "A time-course study on the expression of opsin gene in the degenerating retina if rd mutant (C3H/He) mice by in situ hybridization" Vision Res.(1989) ▼
- [Publications] Che-Hui KUO: "Developmental changes of MEKA protein in normal and rd mutant (C3H/He) mice" Brain Res.(1989) ▼

URL: [https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-62571022/625710221988kenkyu\\_seika\\_hokoku\\_](https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-62571022/625710221988kenkyu_seika_hokoku_)

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